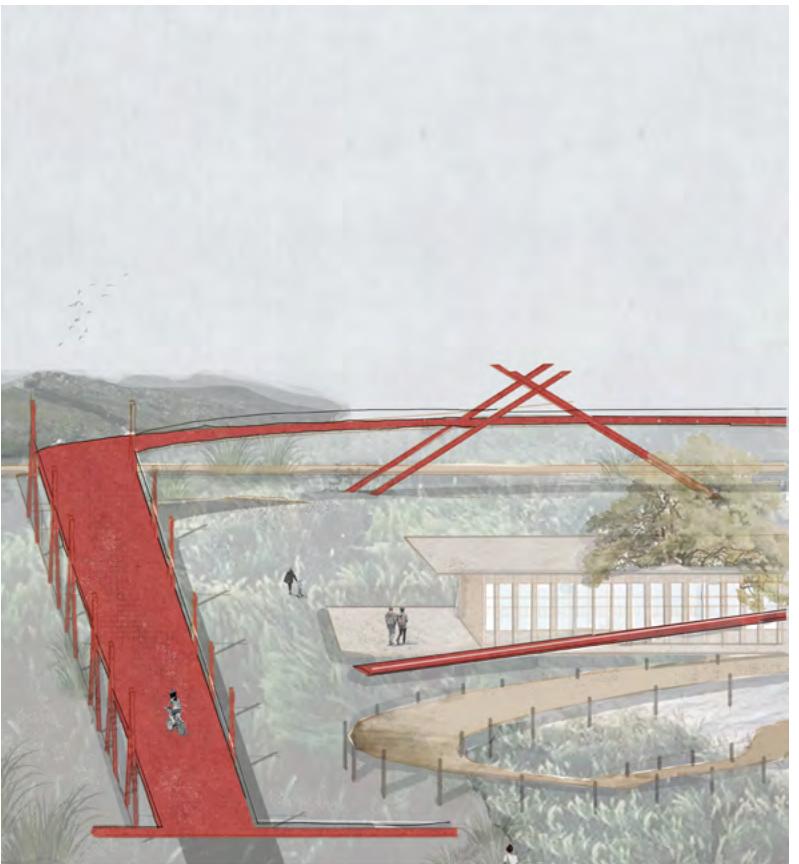




P O R T F O L I O

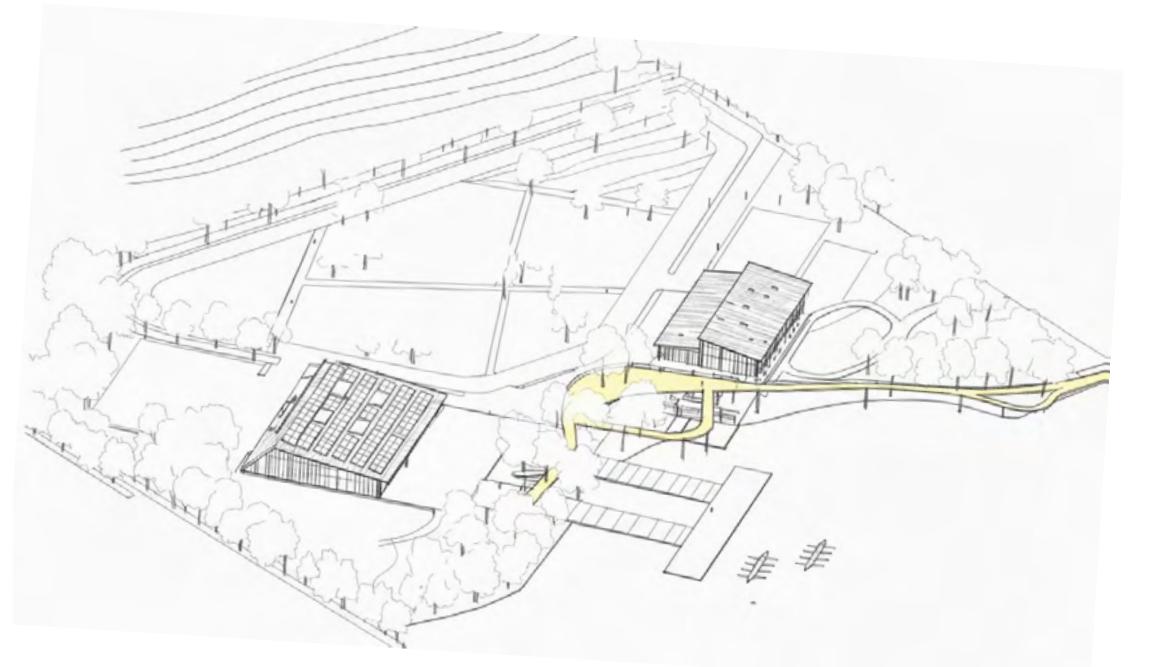
## CONTENTS



With an unparalleled passion for travel, I love experiencing new cultures especially through an architectural lens. Having been an inquisitive soul, critical thinking has always been a big part of my life. My mind was constantly looking at different ways to perceive things. And that is my approach towards design and architecture.

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TEL: +1 464 300 6613

2025	Floating Horizon_Group Project	P01-05
2025	Ember Negative	P06-09
2024	Nautical_Group Project	P10-12
2023	Recycling Park : A Sustainable Approach to Integrating waste Management with the urban realm of Amin bazar_ THESIS STUDIO	P13-16
2022	Residence II INTERPLAY	P17-21
2021	SKYWALKER	P22-24
	Office Work	P25-26



## FLOATING HORIZON CONCEPT

**Site Location:** Clinton Lake, Illinois, USA

**Site Area:** 620,000 SQ.Ft;

**Project Type:** Rowing Centre

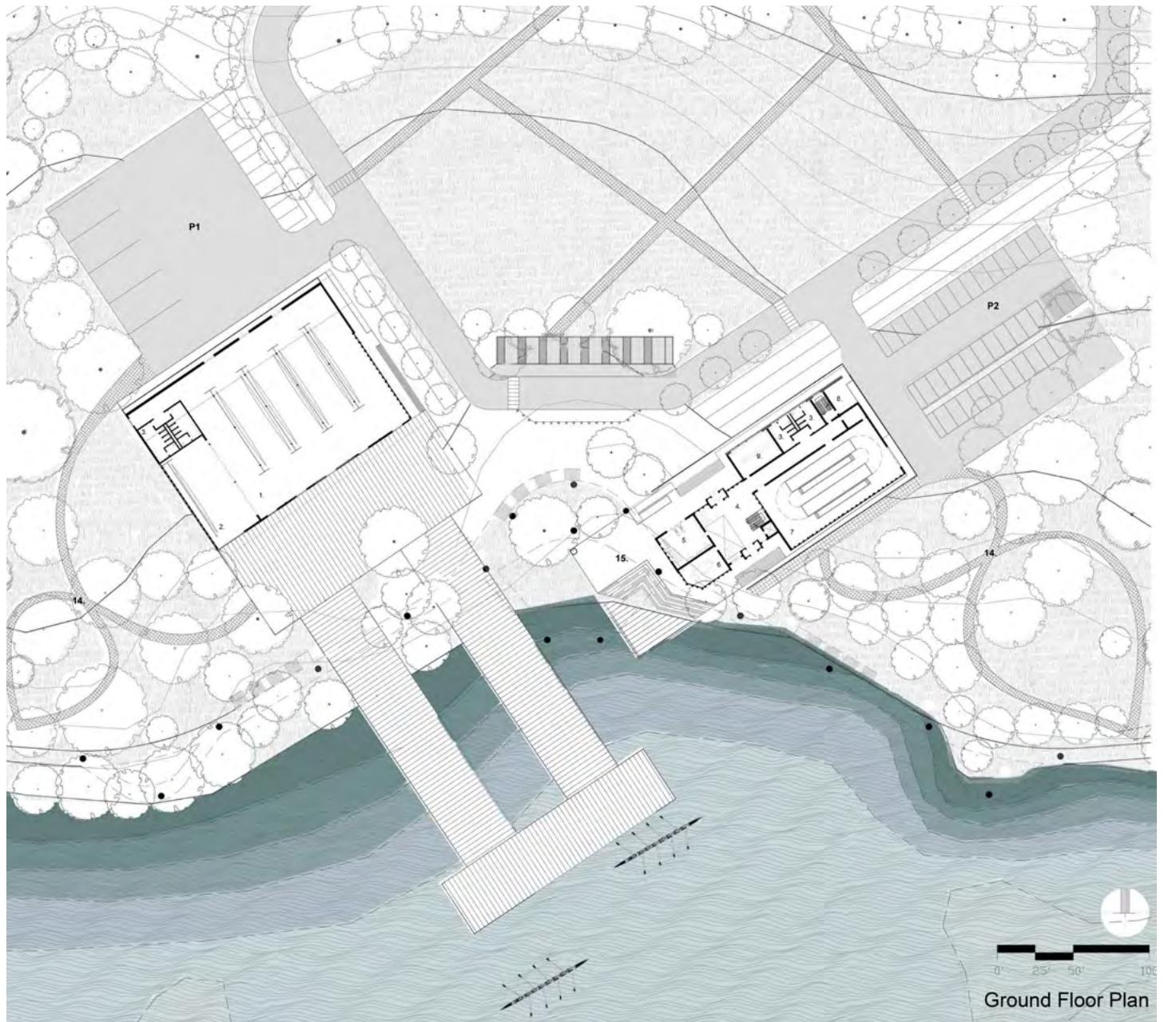
**Faculty:** Scott Murray

**Group Project**

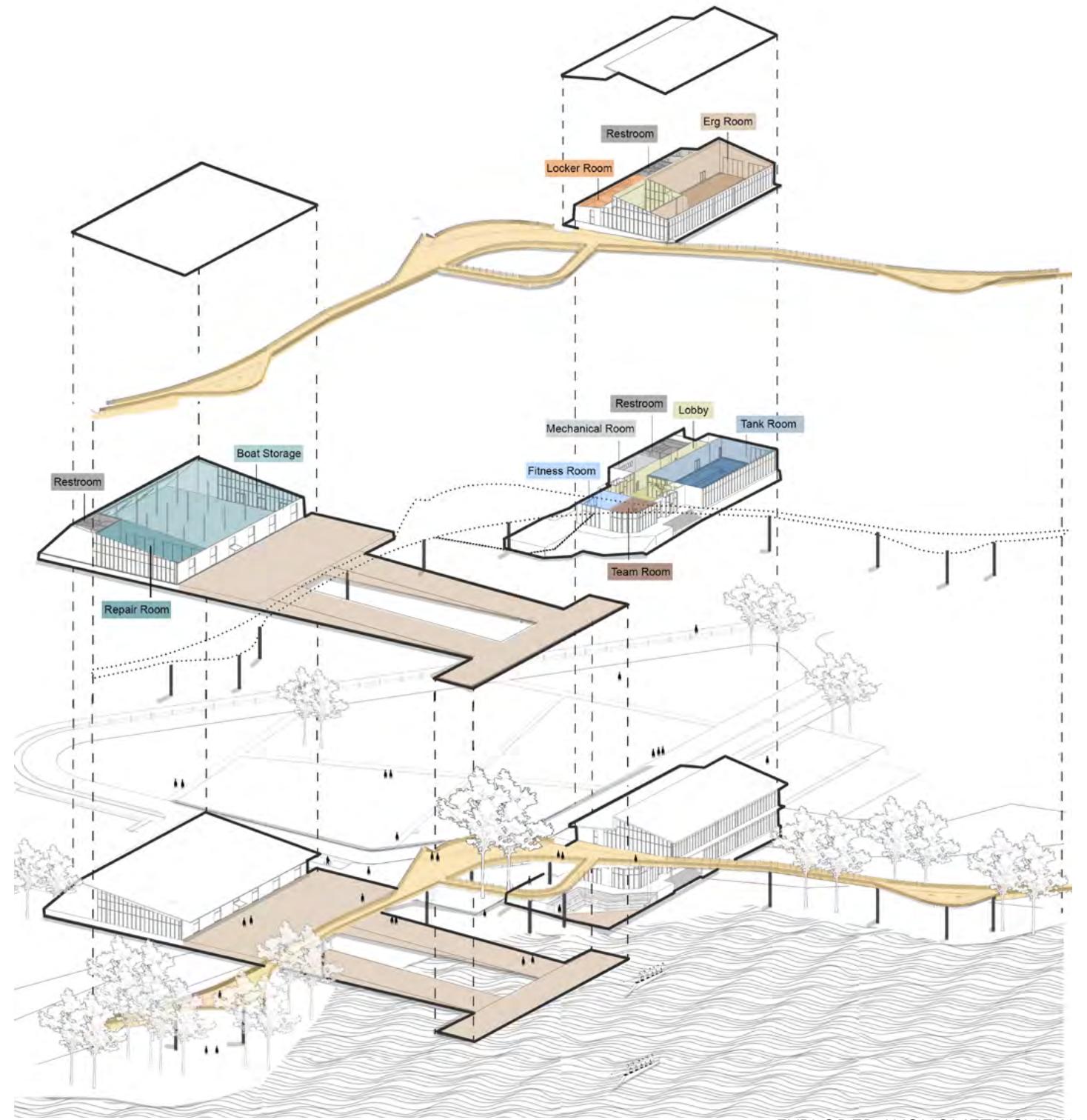
**My contribution:** Development of building plans,  
Diagrams & Final renderings

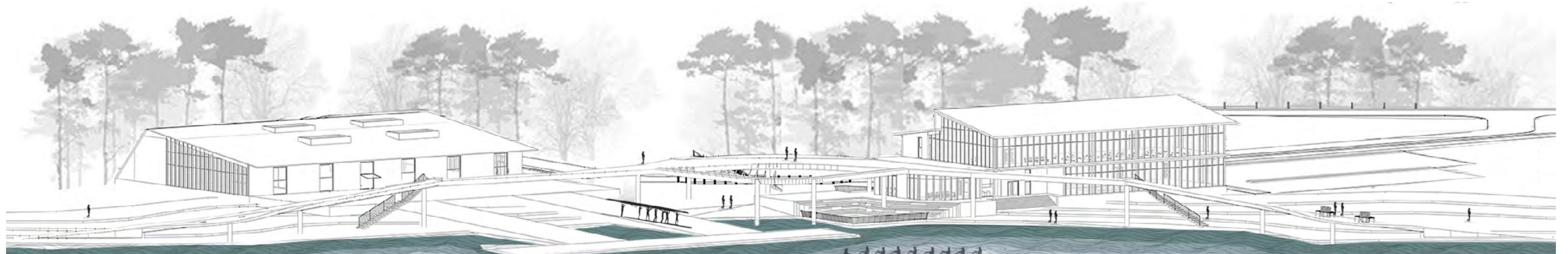
The design envisions a floating horizon along the lake-front where an elevated steel ramp in a bright accent color extends over the landscape and water, offering the public a unique space to view rowing activities and competitions. The ramp becomes a visual highlight, contrasting with the surrounding trees and the calm surface of the lake. Below and beside it, the boathouse and rowing center are built in engineered wood, expressing warmth, rhythm, and craftsmanship.





- 1. Boat Storage
- 2. Repair Room
- 3. Restroom
- 4. Lobby
- 5. Fitness Room
- 6. Team Room
- 7. Tank Room
- 8. Emergency Exit
- 9. Mechanical Room
- 10. Erg Room
- 11. Lockers
- 12. Office
- 13. Elevated Surface
- 14. Trails
- 15. Outdoor seating space

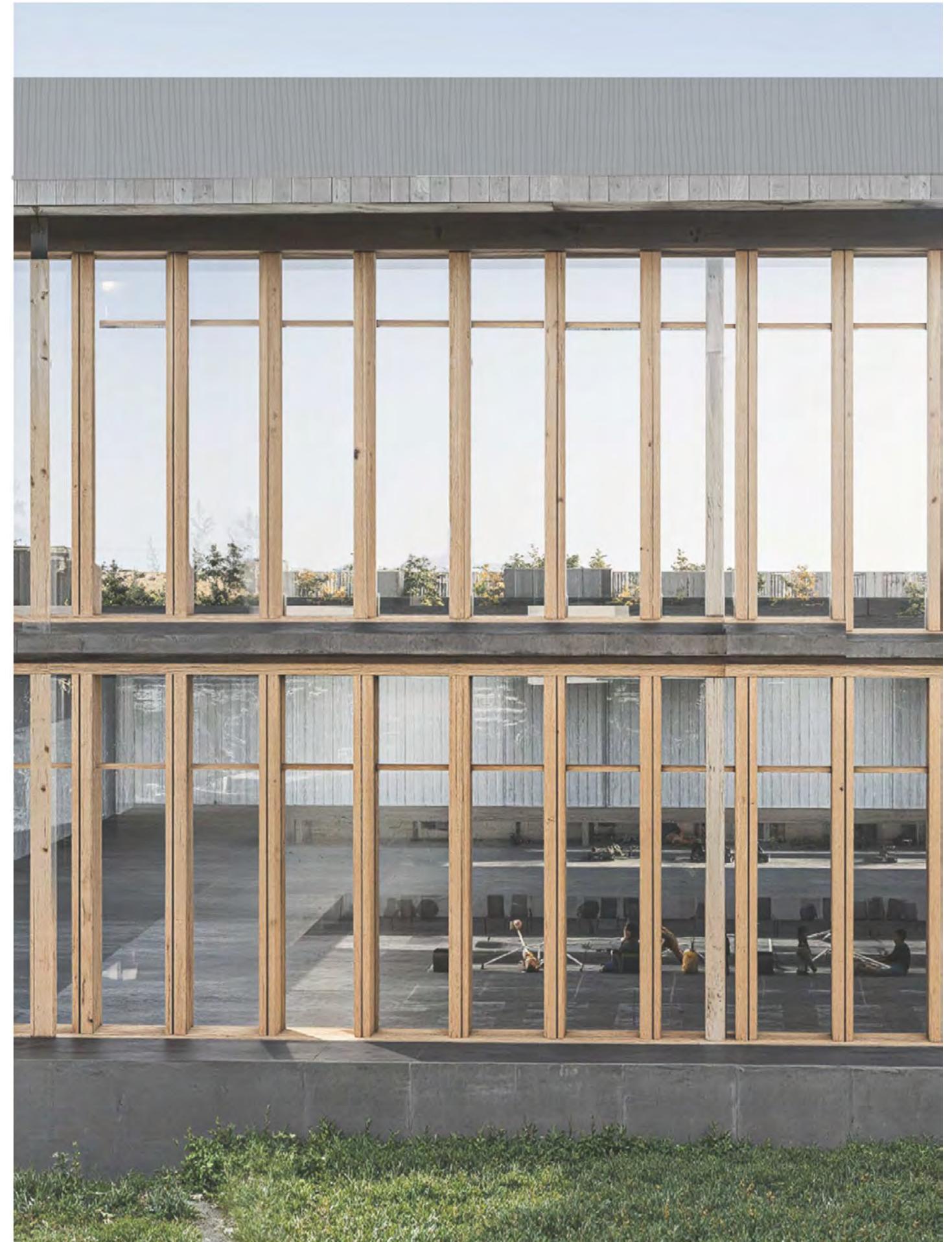
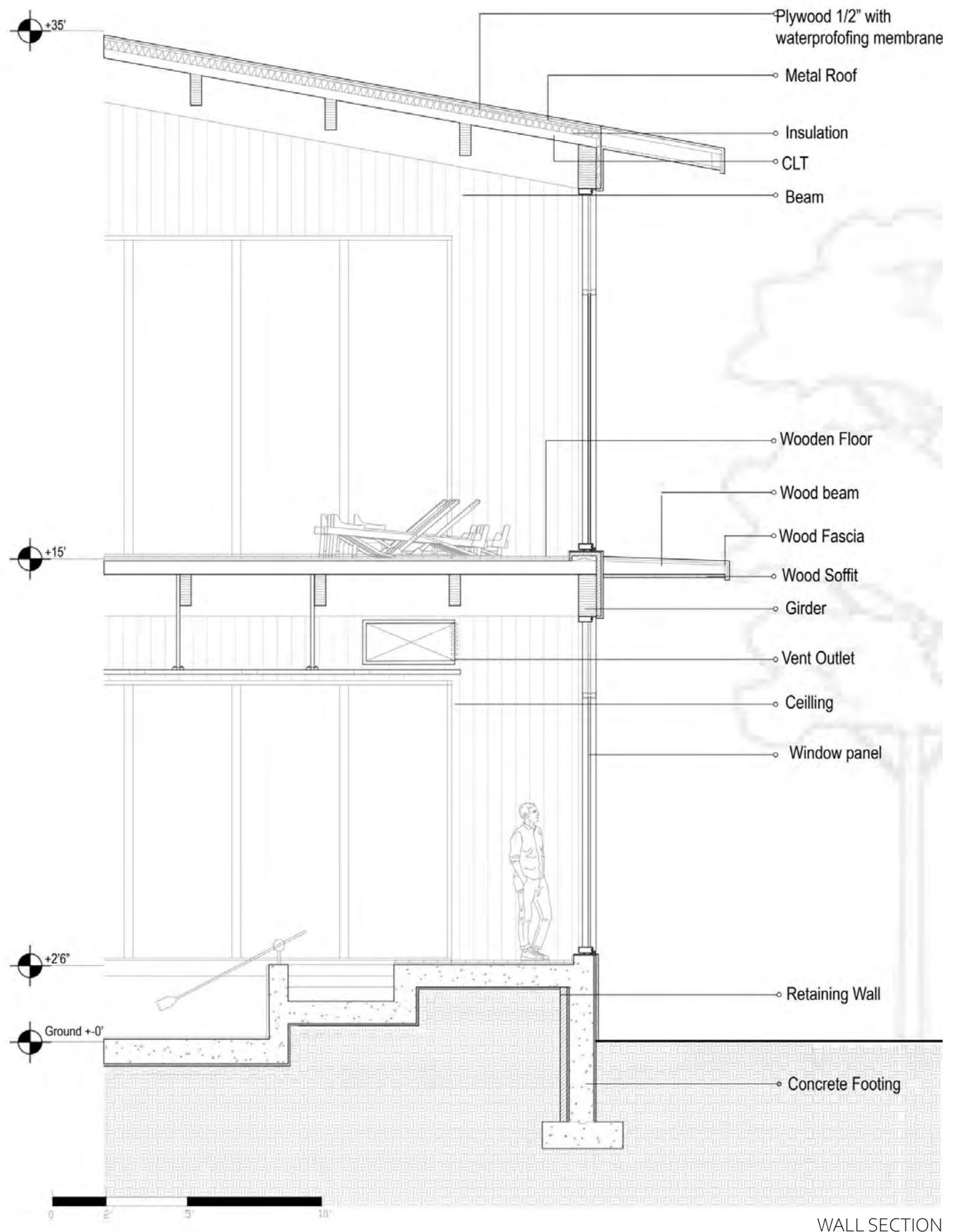


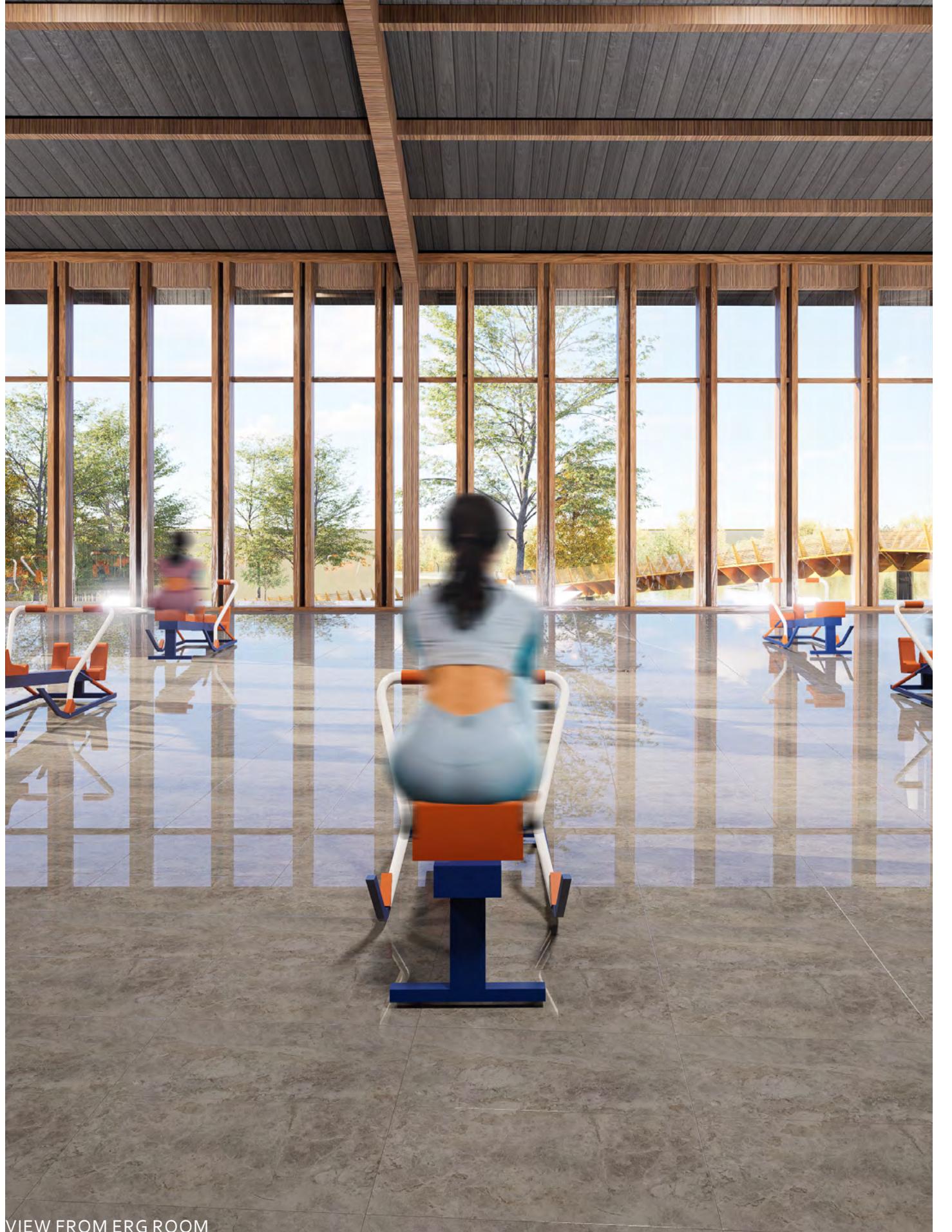


SOUTH AXONOMETRIC VIEW



SECTION AA

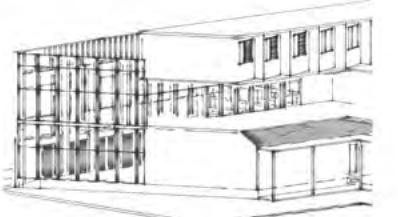




VIEW FROM ERG ROOM

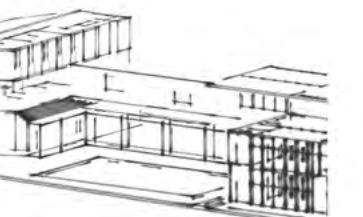


VIEW FROM BOAT STORAGE



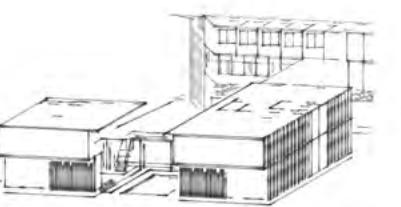
#### Negative Temperature Effect

Concrete and CMU are used for their thermal mass, helping to passively regulate indoor temperatures and reduce heat gain, making the space cooler and more energy-efficient.



#### Negative Temperature Effect

An interactive space with exhibits, demos, and training sessions to educate locals on fire safety and preparedness. It turns the station into a community classroom.



#### Negative Visibility Issues

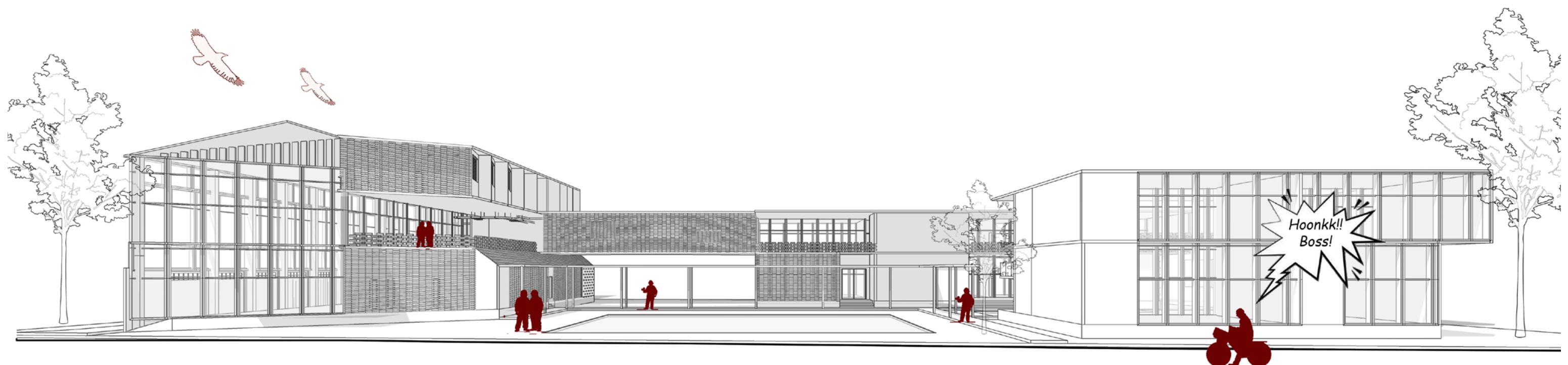
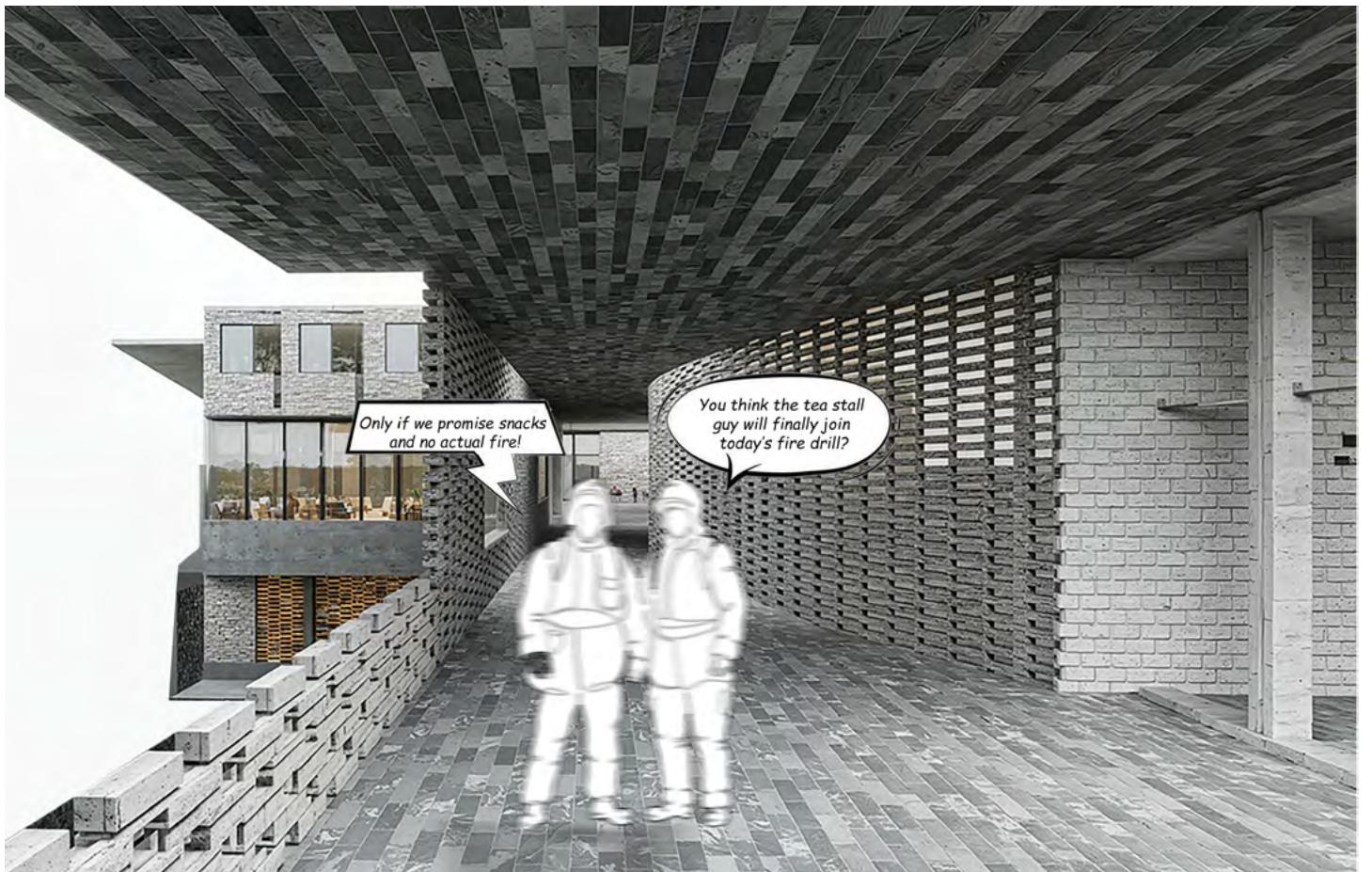
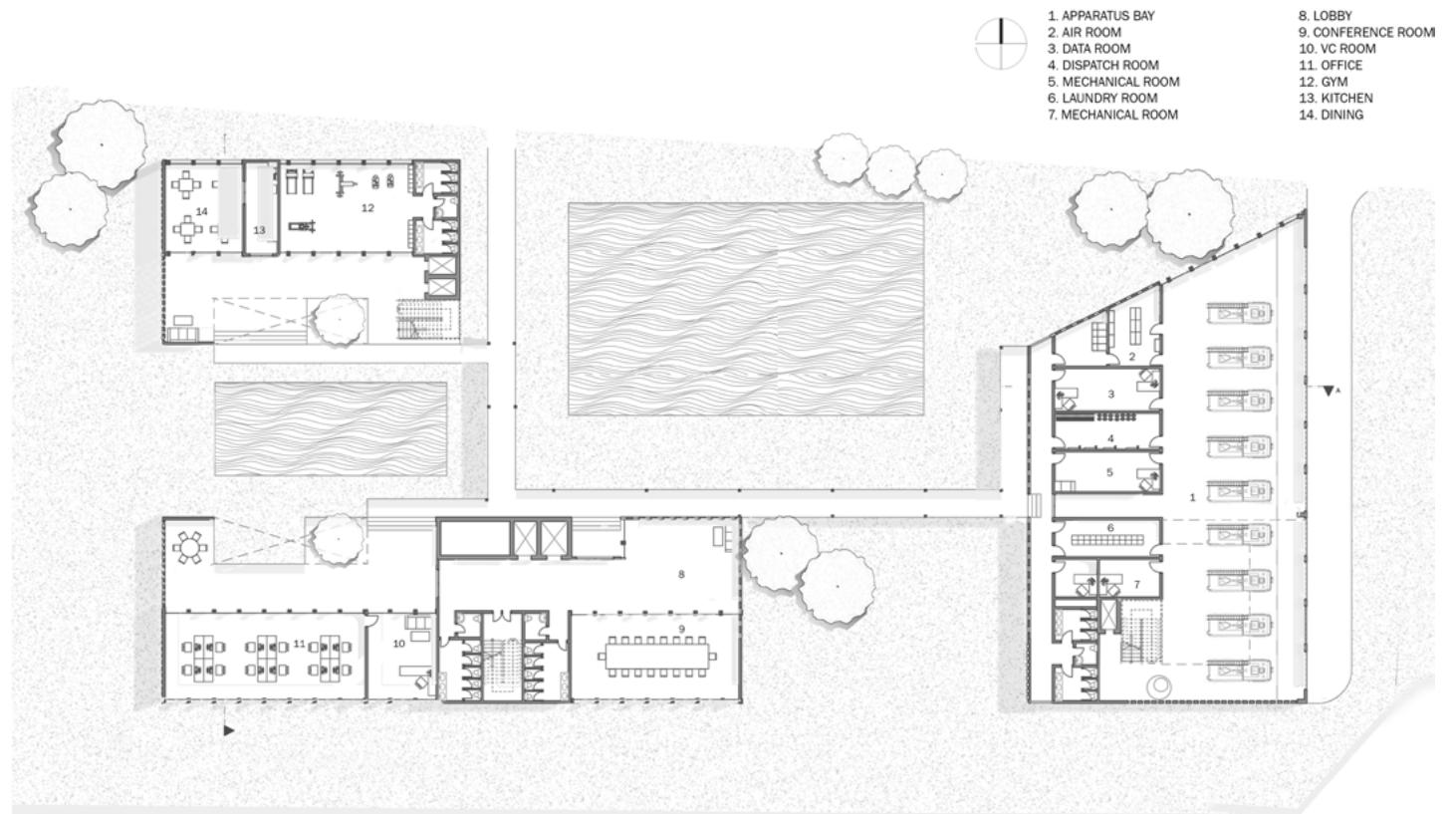
Rather than a hidden or isolated structure, the fire station is designed with visual and spatial permeability. It remains open and recognizable within the urban fabric—inviting the public in and establishing itself as an accessible, community-centered hub.

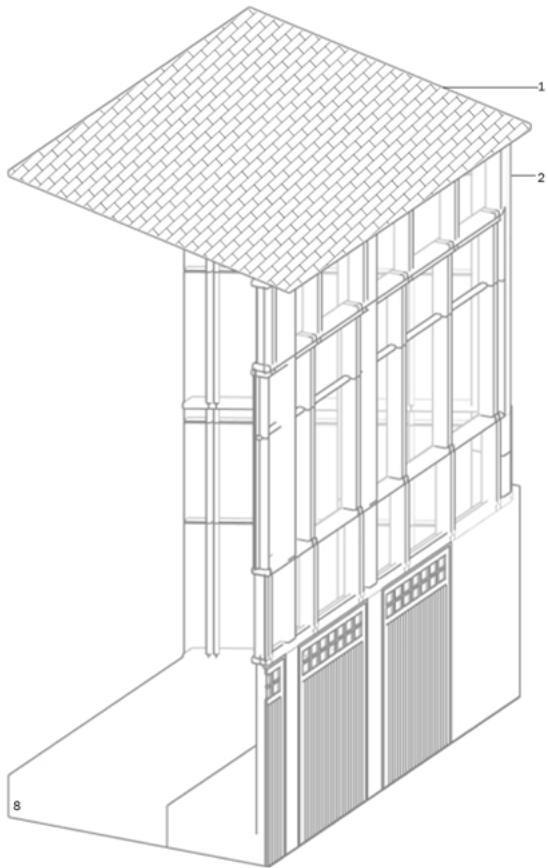
## EMBER NEGATIVE CONCEPT

**Site Location:** Texas, USA  
**Site Area:** 44000 SQ.Ft;  
**Project Type:** Fire Station  
**Faculty:** Erik Hemingway

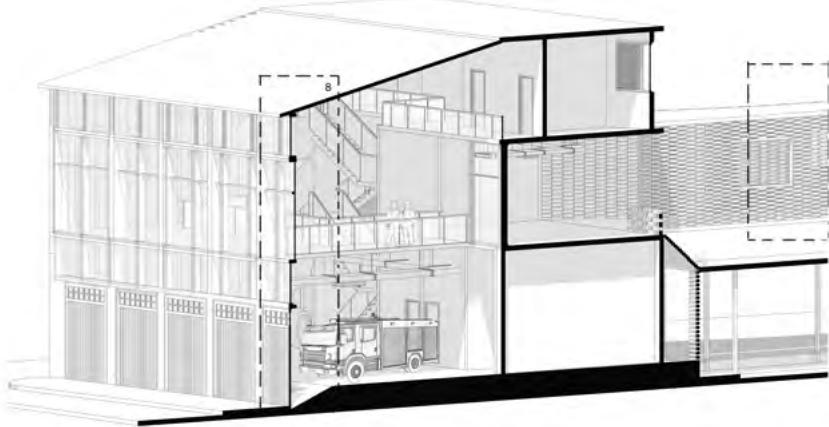
Located within a growing urban community in Texas, Ember Negative reimagines the fire station as a symbol of protection, resilience, and public trust. Built with durable concrete block masonry, the project supports efficient emergency response while creating welcoming public spaces for education, gathering, and fire-safety awareness. In a region increasingly shaped by extreme heat, wildfires, and rapid urban growth, the station acts as a visible anchor of security—transforming vulnerability into preparedness, empowerment, and collective safety.



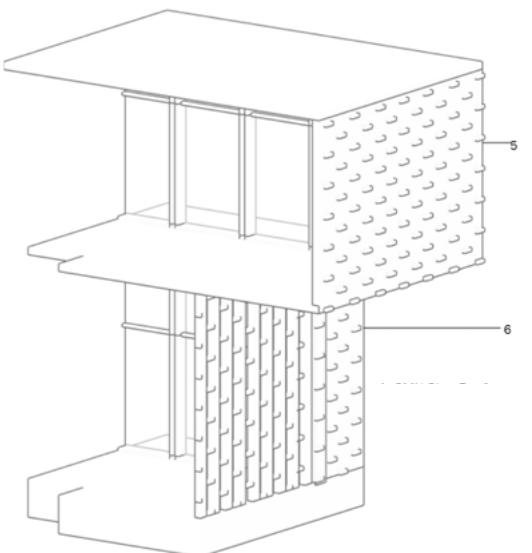




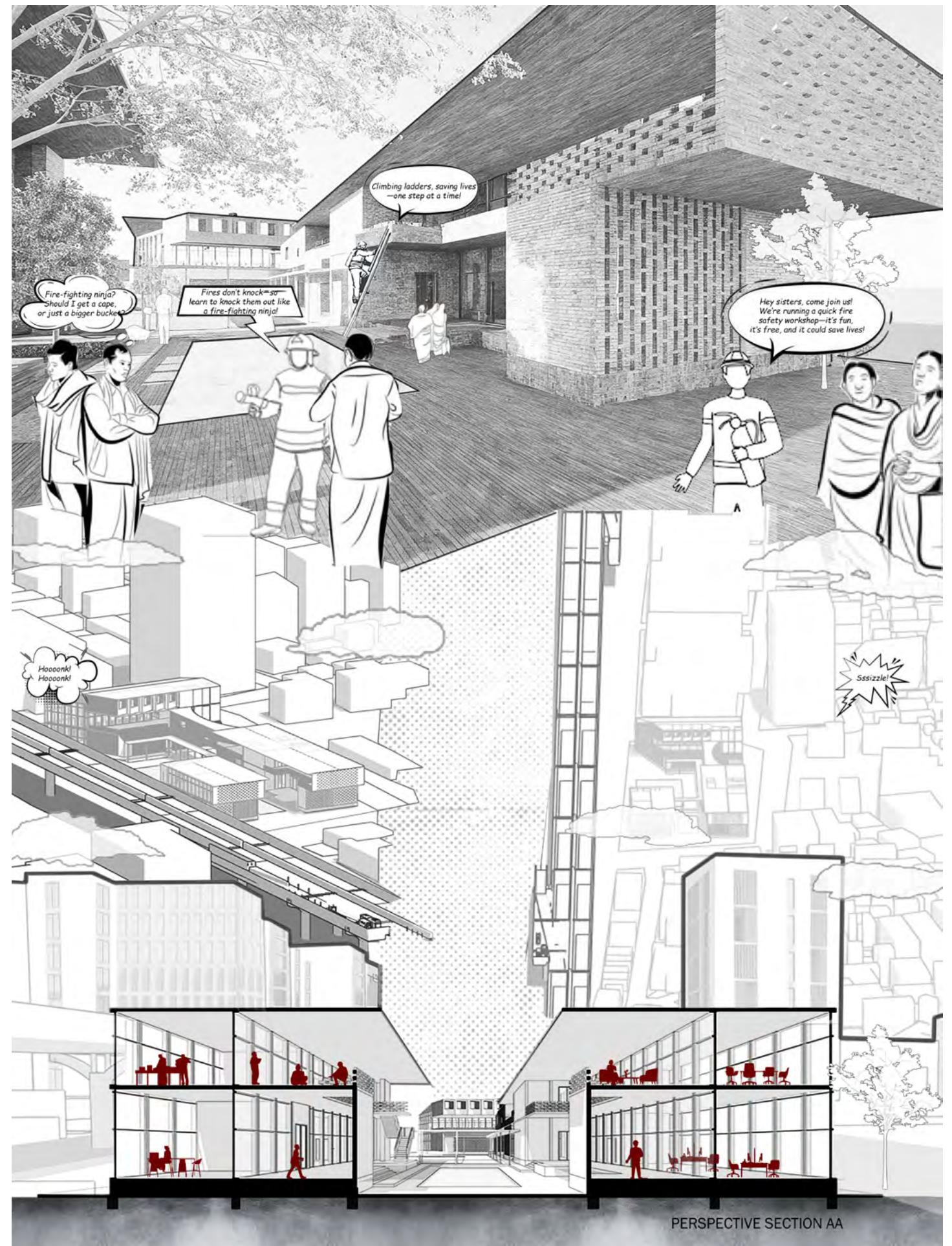
FIRE STATION DETAIL SECTION



FIRE STATION AXONOMETRIC VIEW

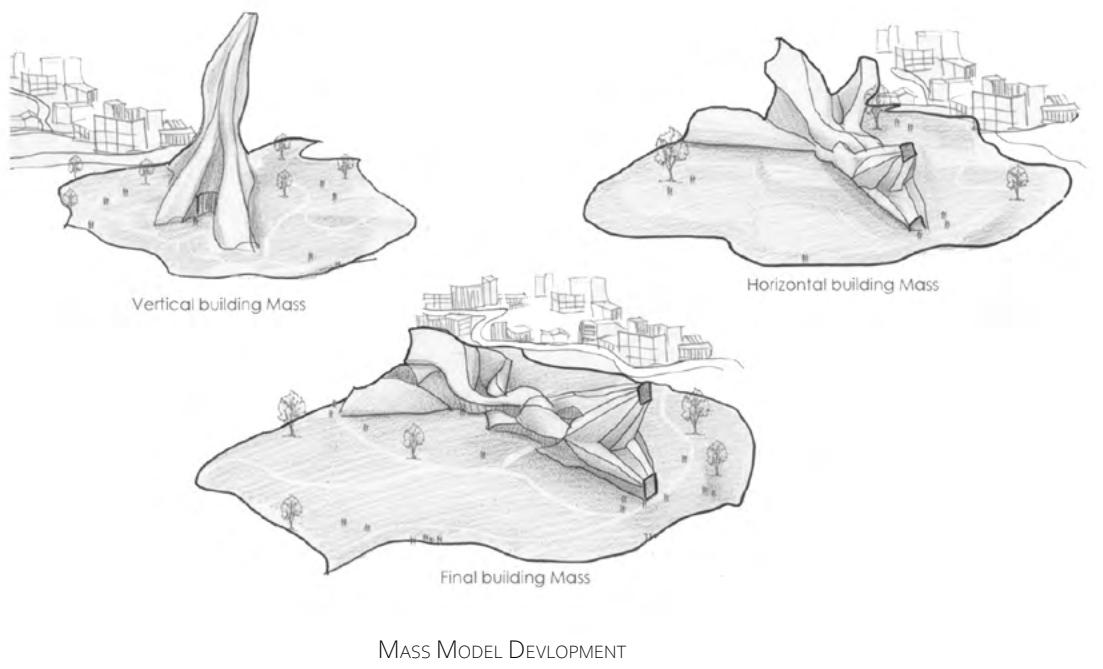


COMMUNITY HALL DETAIL SECTION



PERSPECTIVE SECTION AA





## NAUTICAL

### CONCEPT

**Site Location:** Jeju, South Korea

**Site Area:** 43560 sqft

**Project Type:** Maritime Center

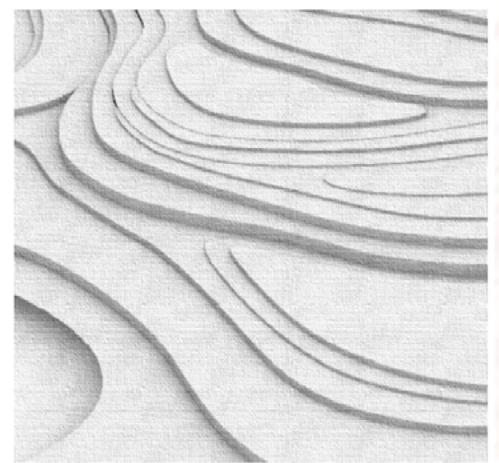
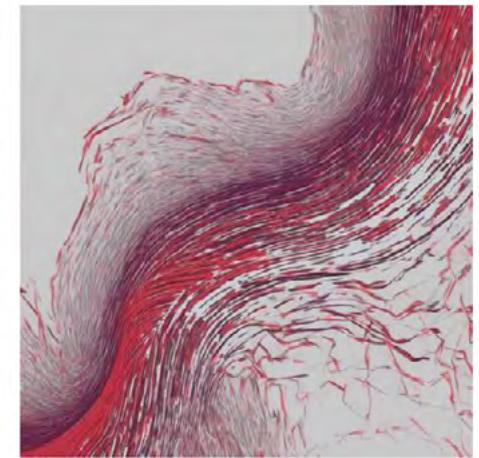
**Faculty:** Prof Yun Yi

**Group Project**

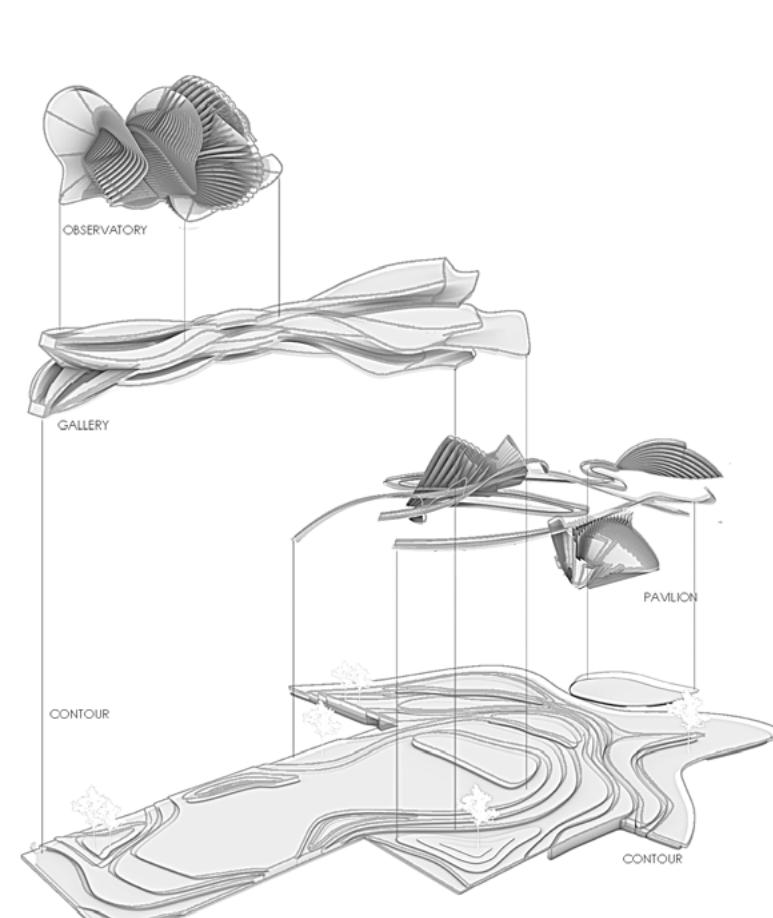
**My contribution:** Development of Horizontal Mass,  
Diagrams & Final renderings

Organic Forms Inspired by Jeju's black volcanic rocks and dynamic ocean waves, the architecture adopts fluid, layered geometries that echo natural and cultural harmony. Traditional Korean motifs, such as geometric patterns and symbolic artifacts, are abstracted into structural and decorative elements. Interactive Spaces: Galleries are designed as immersive experiences, where traditional crafts meet digital storytelling, highlighting Korea's seafaring legacy.

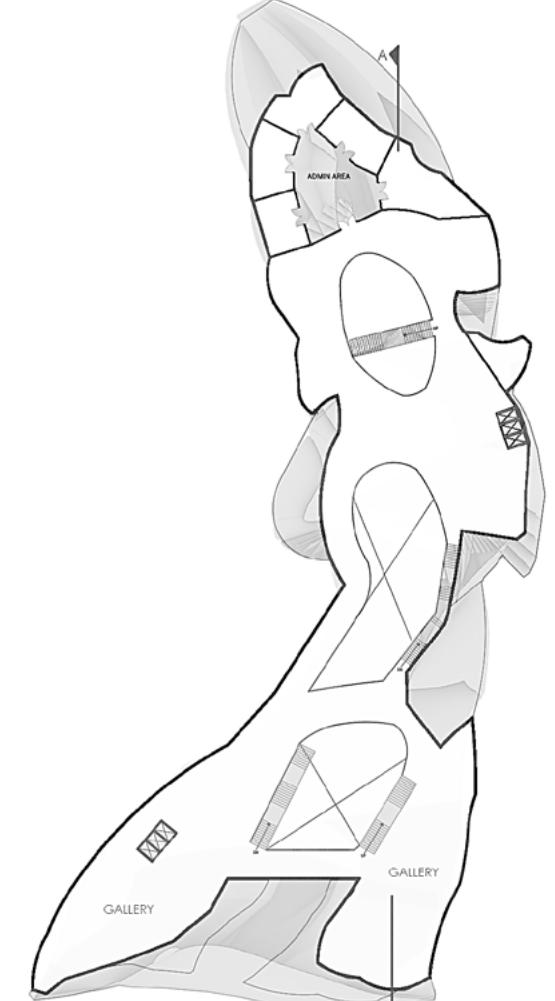




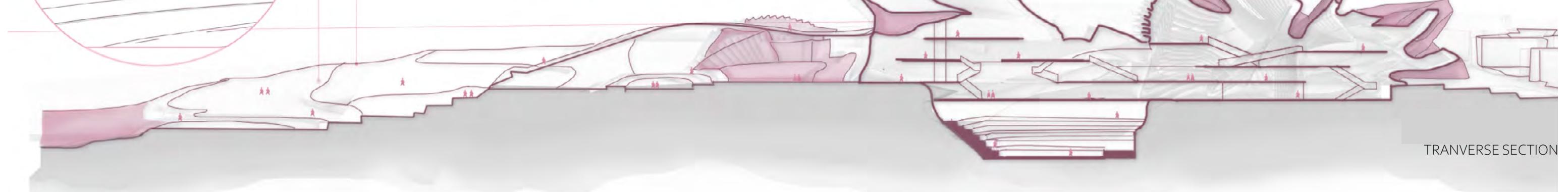
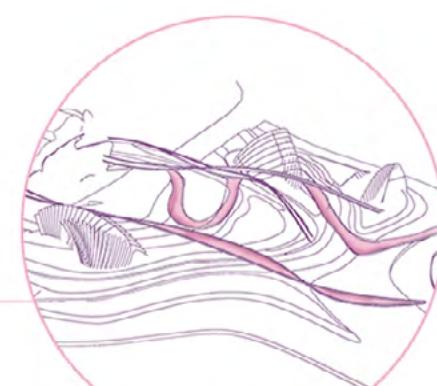
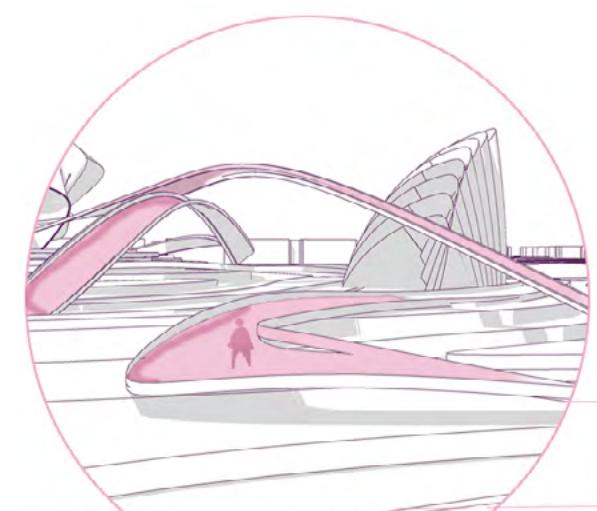
COMFI UI\_IMAGE\_MODEL



EXPLODED AXONOMETRIC



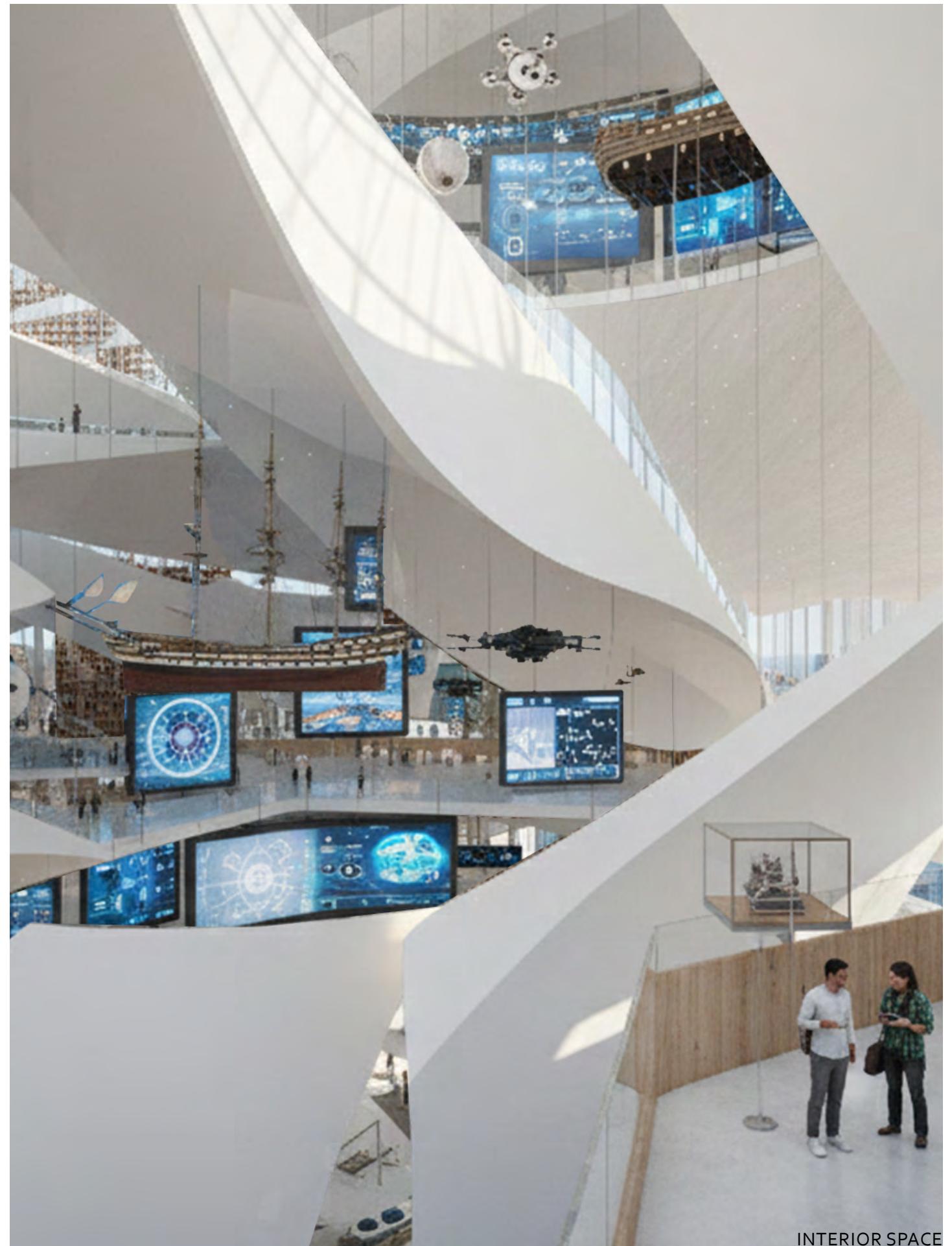
2ND FLOOR PLAN



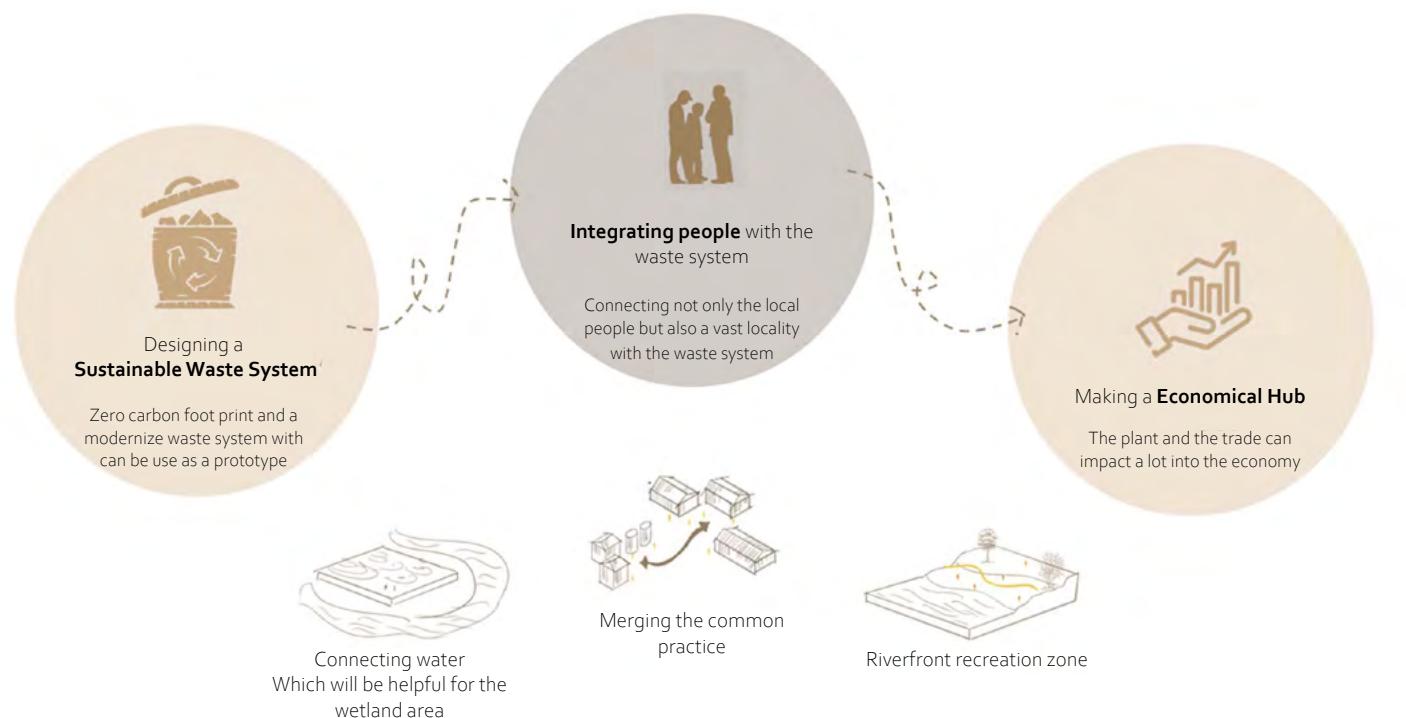
TRANVERSE SECTION



ENTRY VIEW



INTERIOR SPACE



## RECYCLING PARK

### CONCEPT

**Site Location:** Aminbazar, Dhaka, Bangladesh

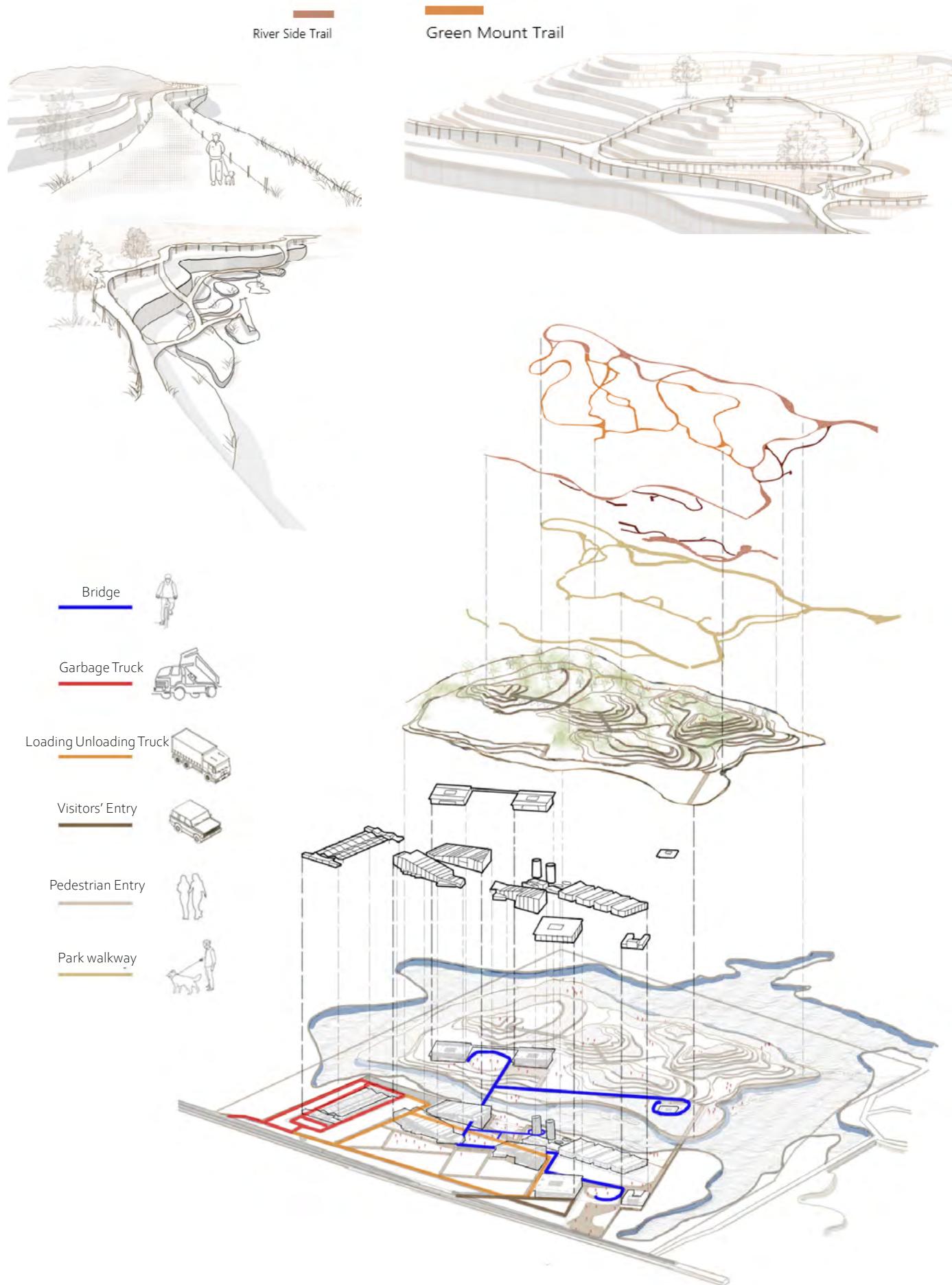
**Site Area:** Existing 53 acre; Extension 80 acre

**Project Type:** Waste Management Industry & Urban park

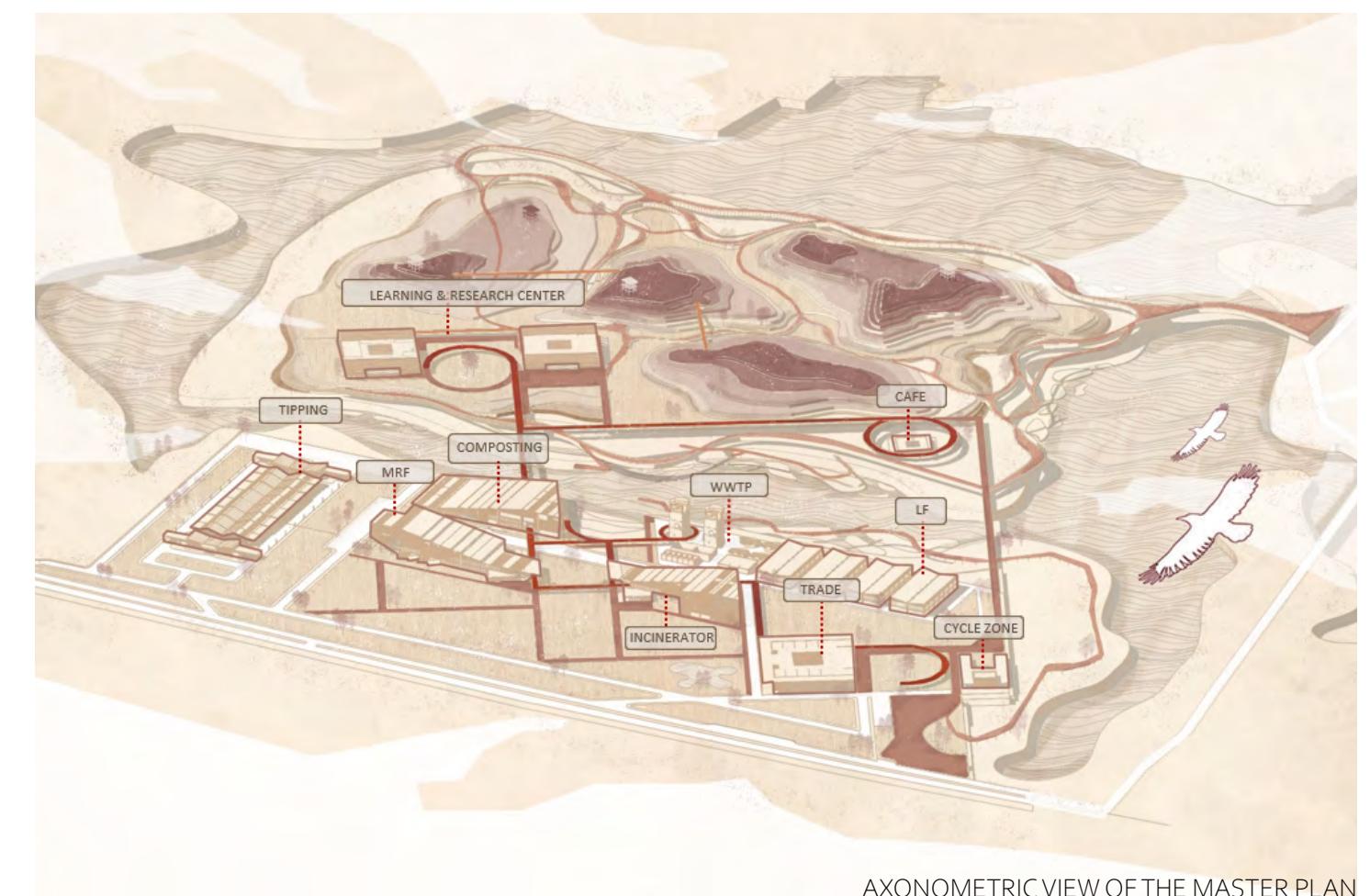
**Faculty:** Ismat Hossain, Rishaad Mohammad Yusuff

Waste is often overlooked but has the potential to be a valuable resource. This thesis explores how waste can be transformed into a resource through human collaboration rather than isolation, reducing the physical and psychological distance between people and waste. By creating a transitional zone between urban recreation and industrial areas, the project aims to integrate social activities with the waste industry while giving space back to the community. A green buffer around the site will separate the public from industrial operations, and a secondary road will improve accessibility. The design will visually shield the industry, use mechanized and futuristic buildings, and prioritize recyclable materials. Ultimately, the project envisions a hybrid architecture where sustainability and social engagement coexist.

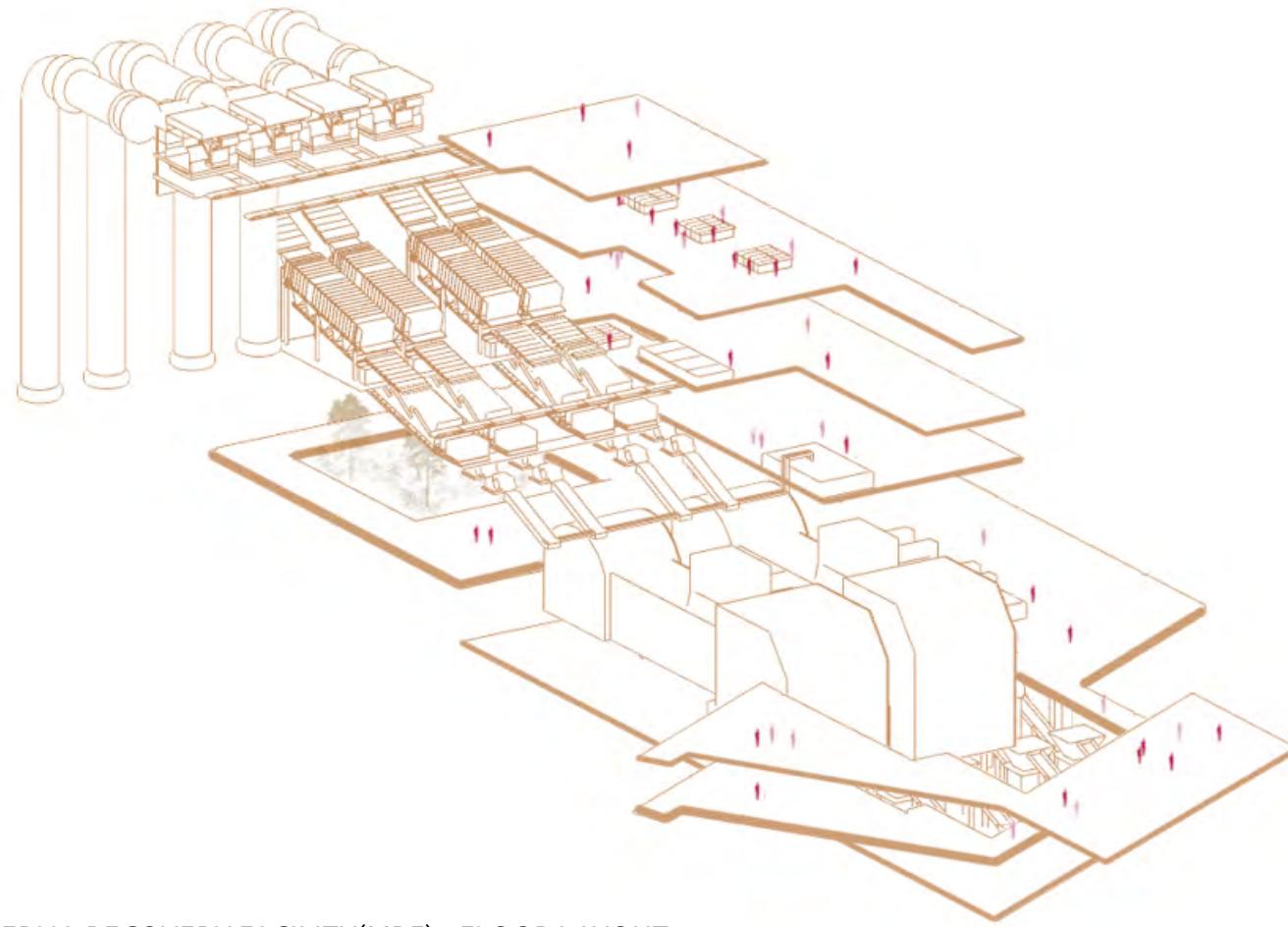




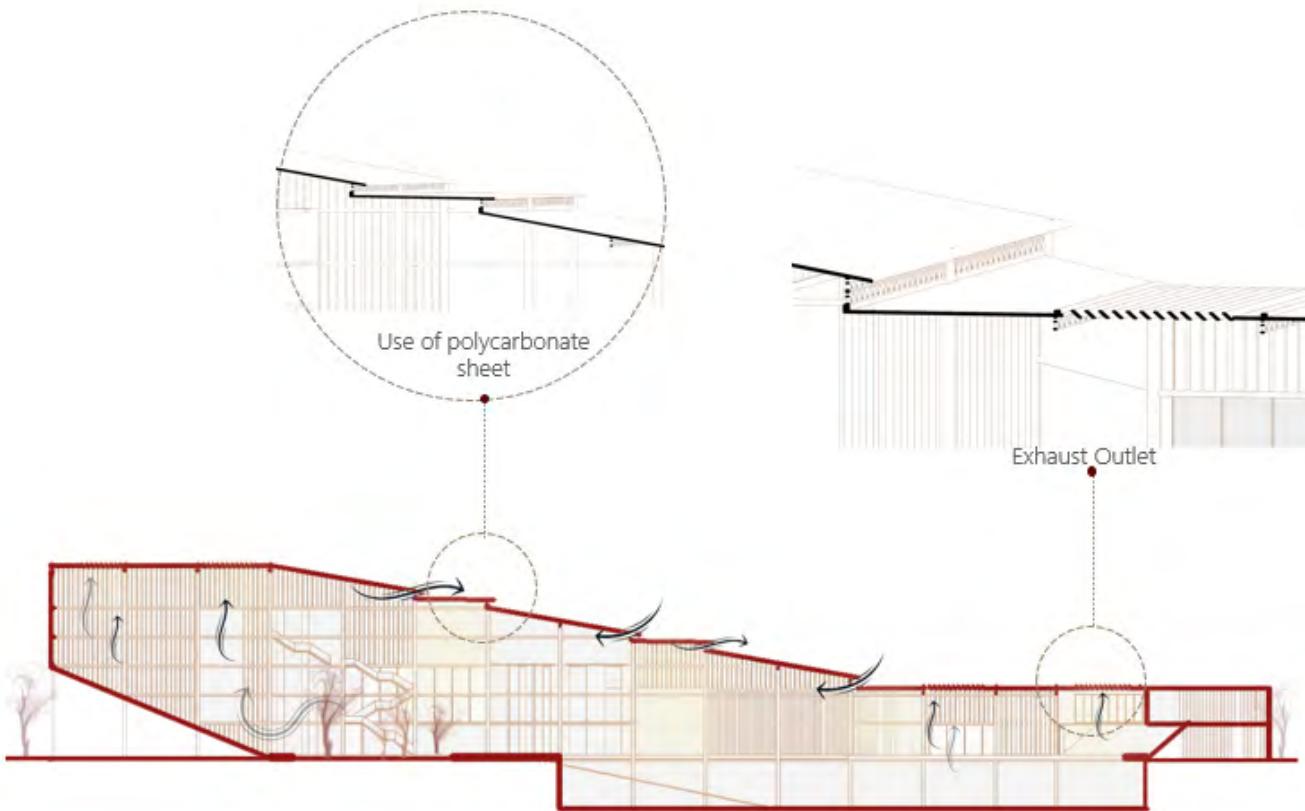
CIRCULATION



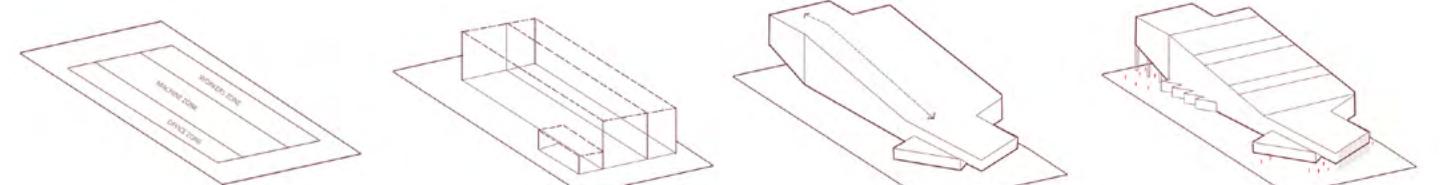
AXONOMETRIC VIEW OF THE MASTER PLAN



MATERIAL RECOVERY FACILITY(MRF) \_ FLOOR LAYOUT



WIND FLOW DIAGRAM & ROOF DETAILS



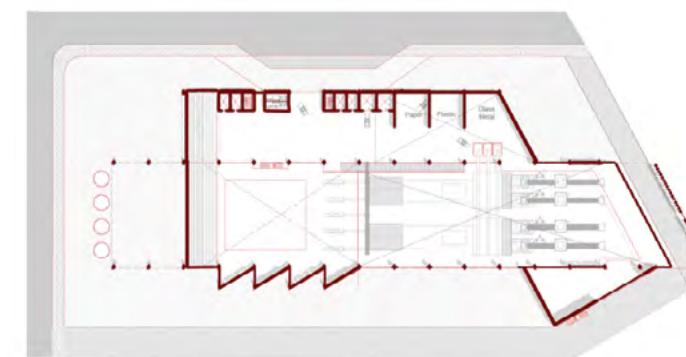
Divide into **three different zone**

Add **Volume**

Angle as the **machine angle**,  
also use **light-weight**  
roofing

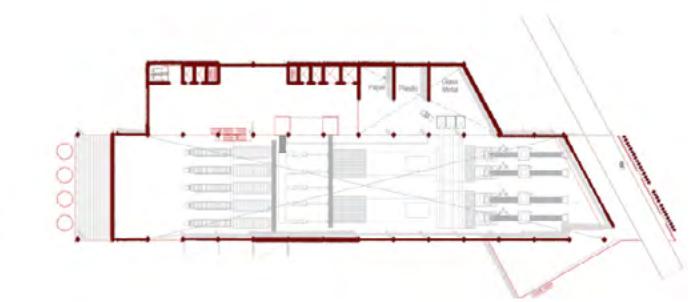
Steps in the roofing for easy  
**ventilation** and **lighting**,  
Gives more **transparency**

Form Development



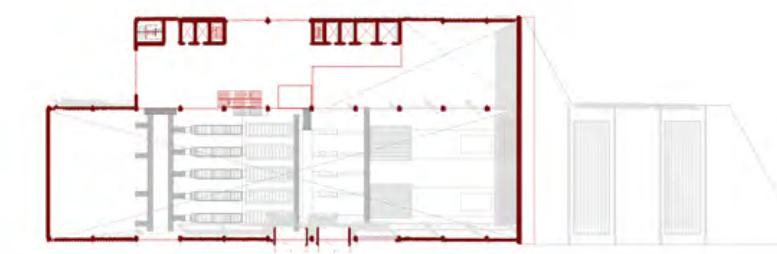
GROUND FLOOR PLAN

0 20 60 100



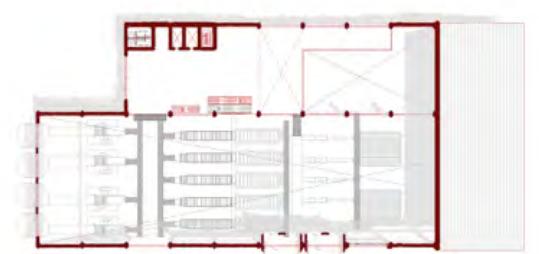
PLAN AT +17'

0 20 60 100



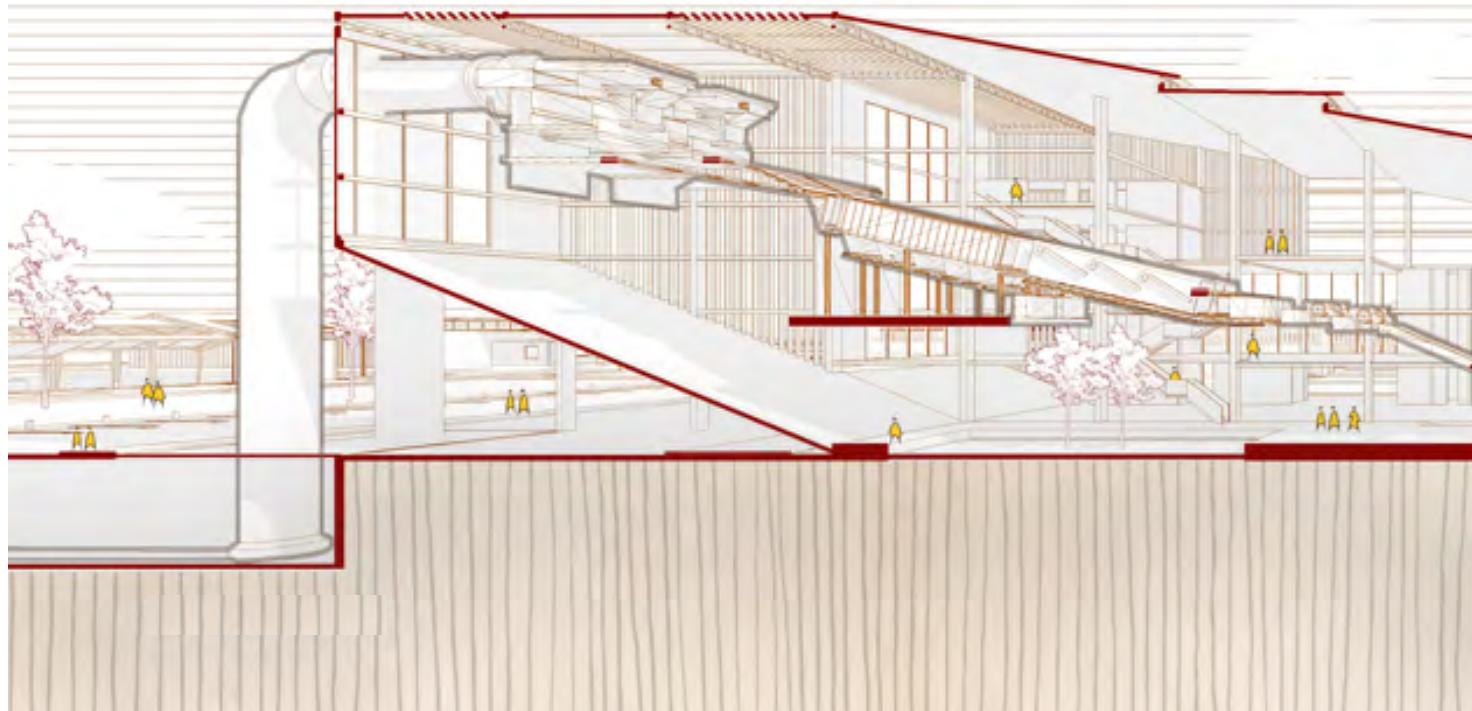
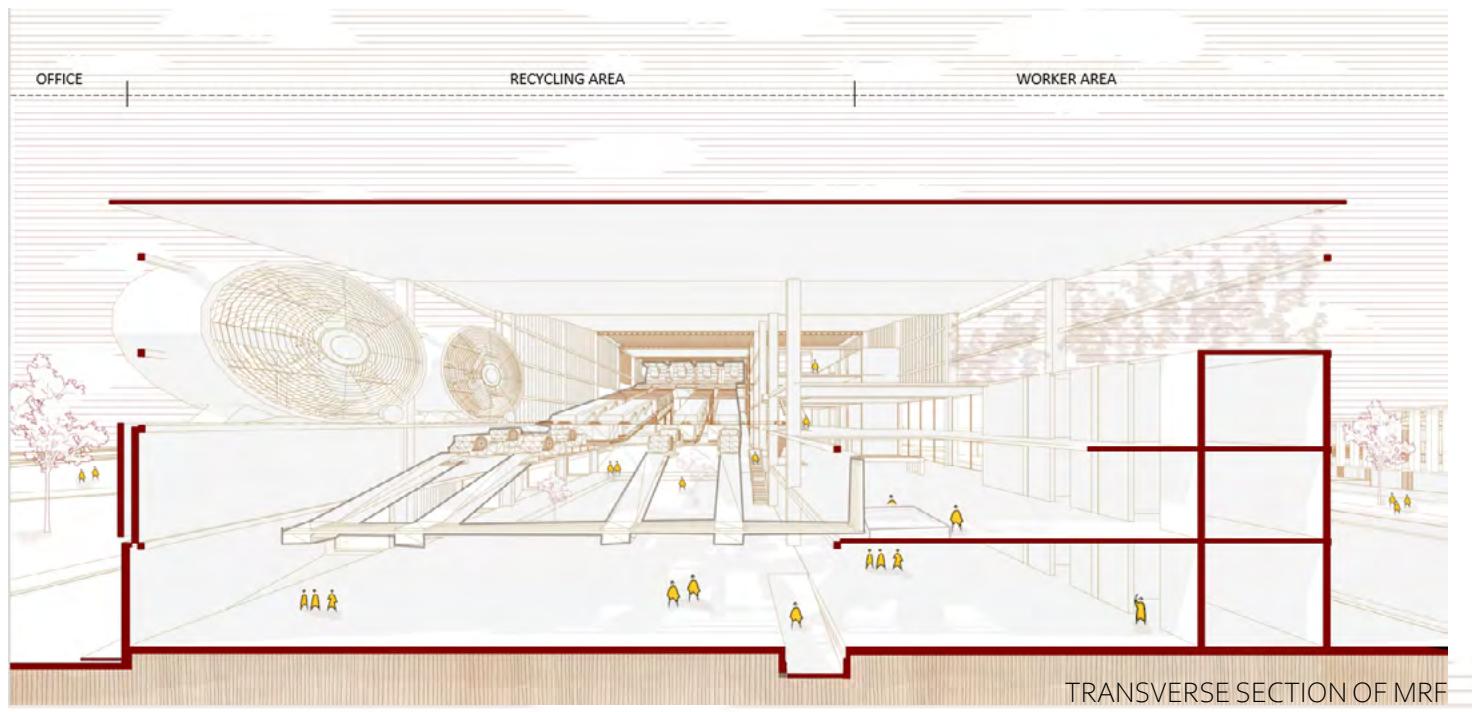
PLAN AT +30'

0 20 50 100



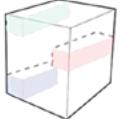
PLAN AT +45'

0 20 50 100



TRANSVERSE SECTION OF MRF

Main Idea



Connecting spaces  
with common  
functions



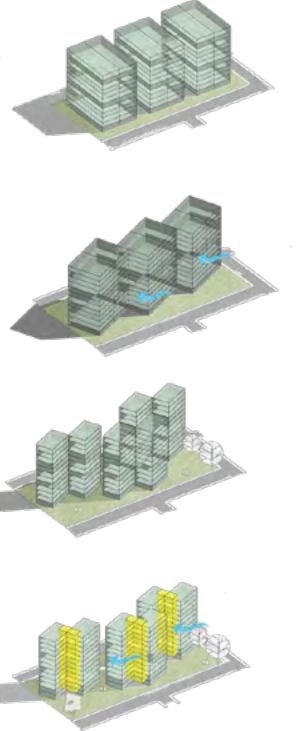
Breathable common  
spaces inside the  
apartment



Create independency  
among the people  
and the surroundings



Form Development



## INTERPLAY

### CONCEPT

**Site Location:** Bashundhara, Dhaka, Bangladesh

**Site Area:** 1 acre

**Project Type:** Apartment Building

**Faculty:** Muzzafer

Our surroundings and our neighborhood affect us as well as they are also affected by us. The main idea was to create independence among the people and their surroundings and give them a breathable space.

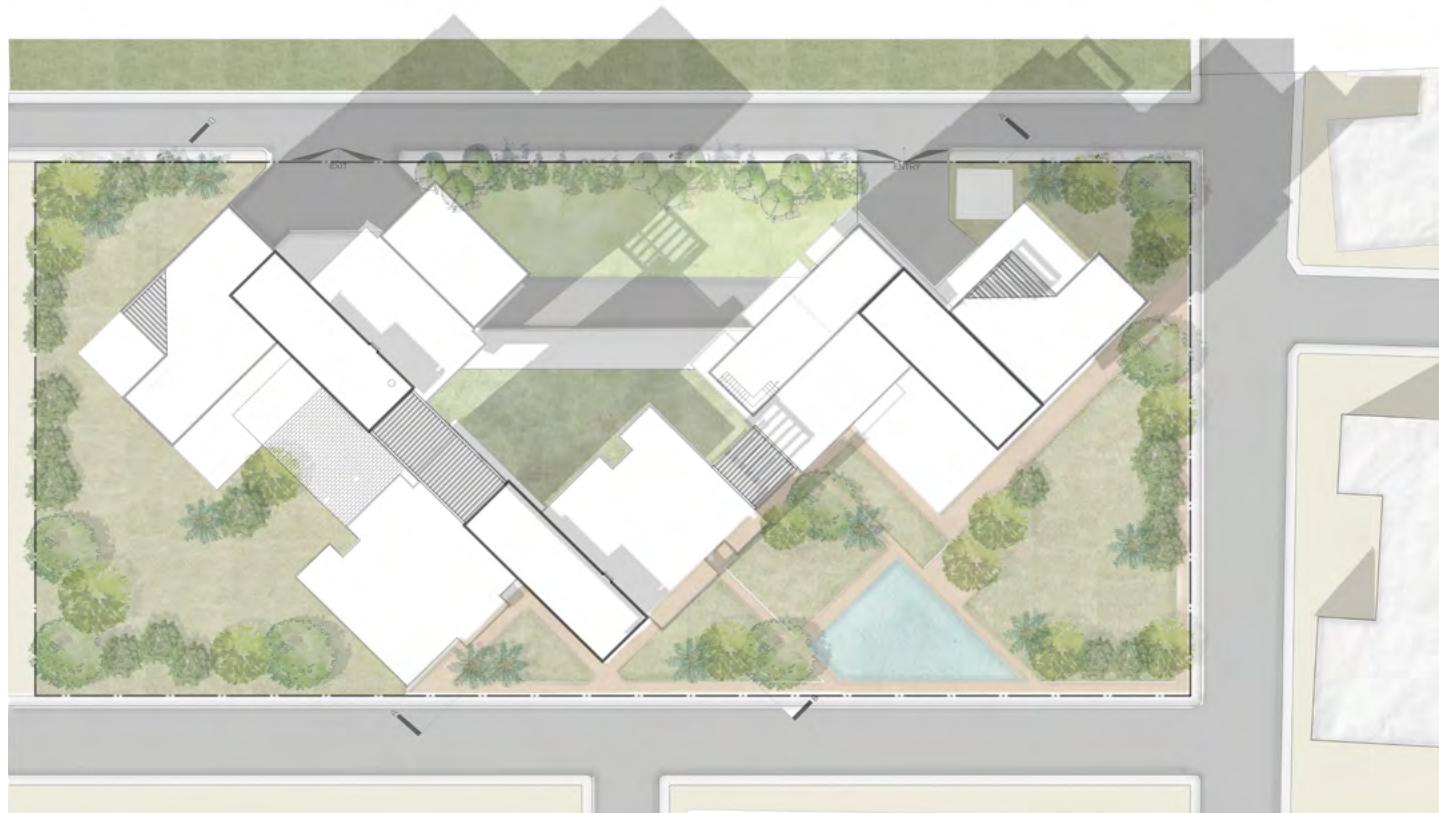




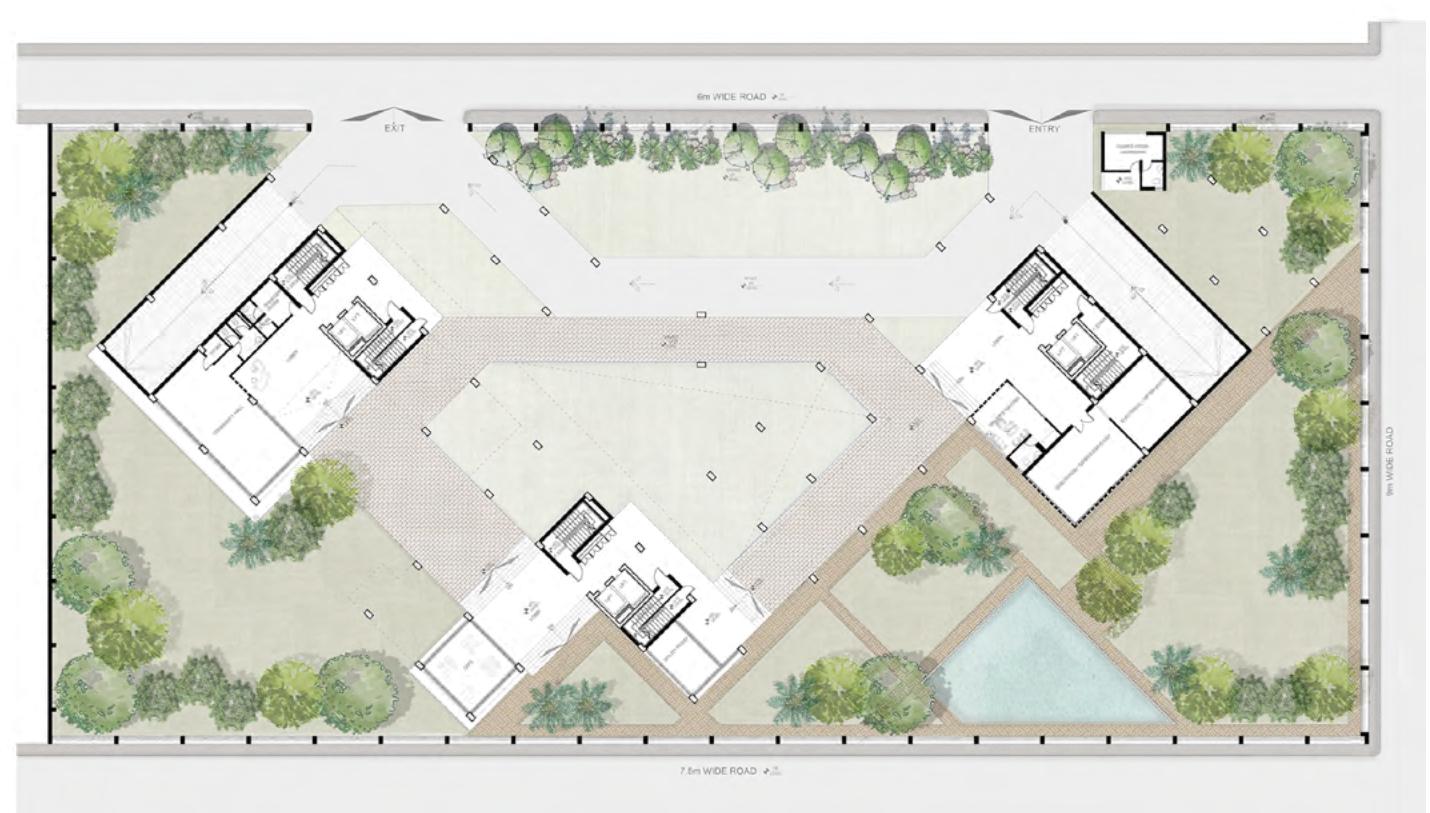
① TYPICAL FLOOR PLAN( 2nd, 4th, 8th, 10th)



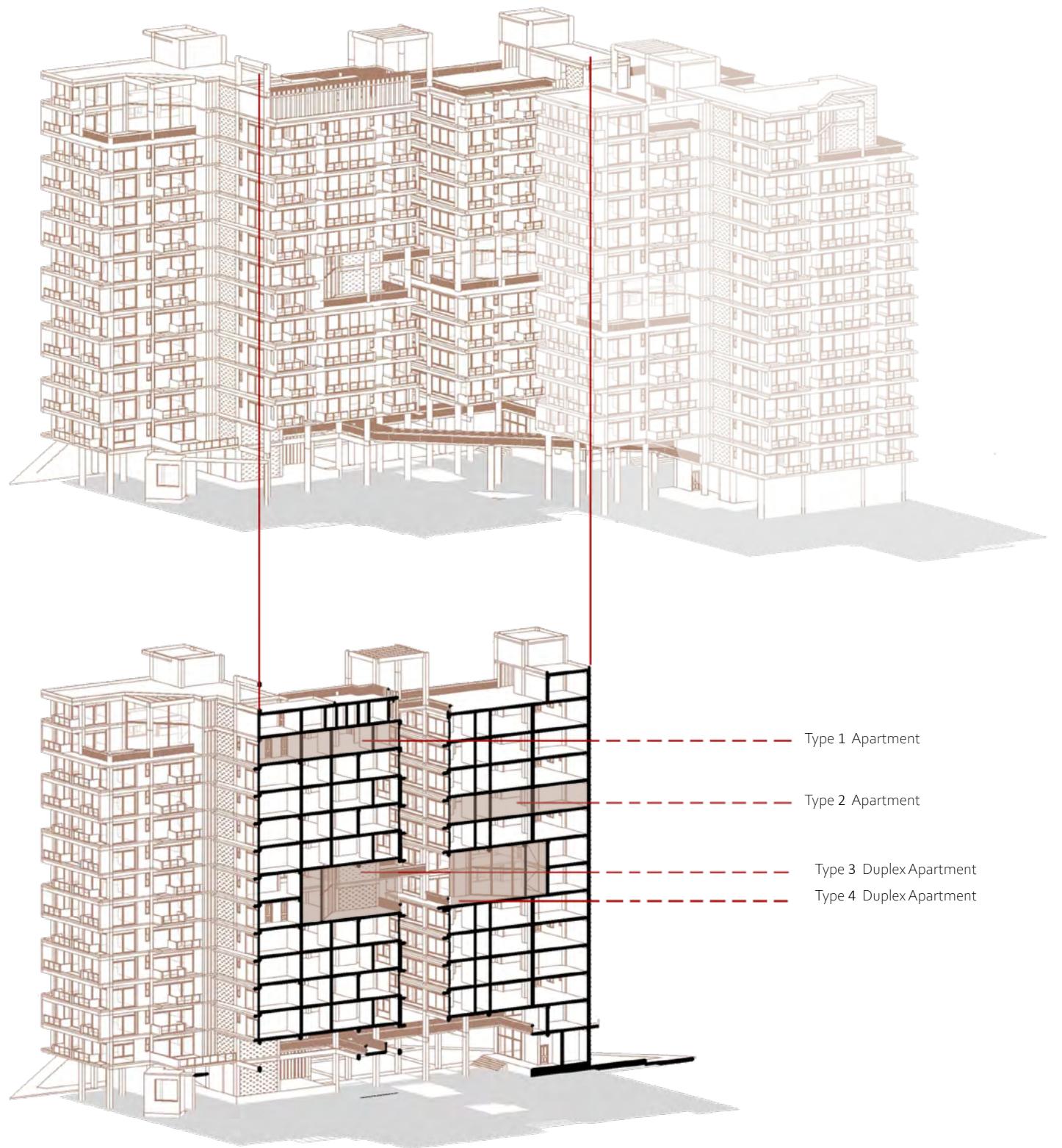
UNIT BLOWUP PLAN



SITE PLAN



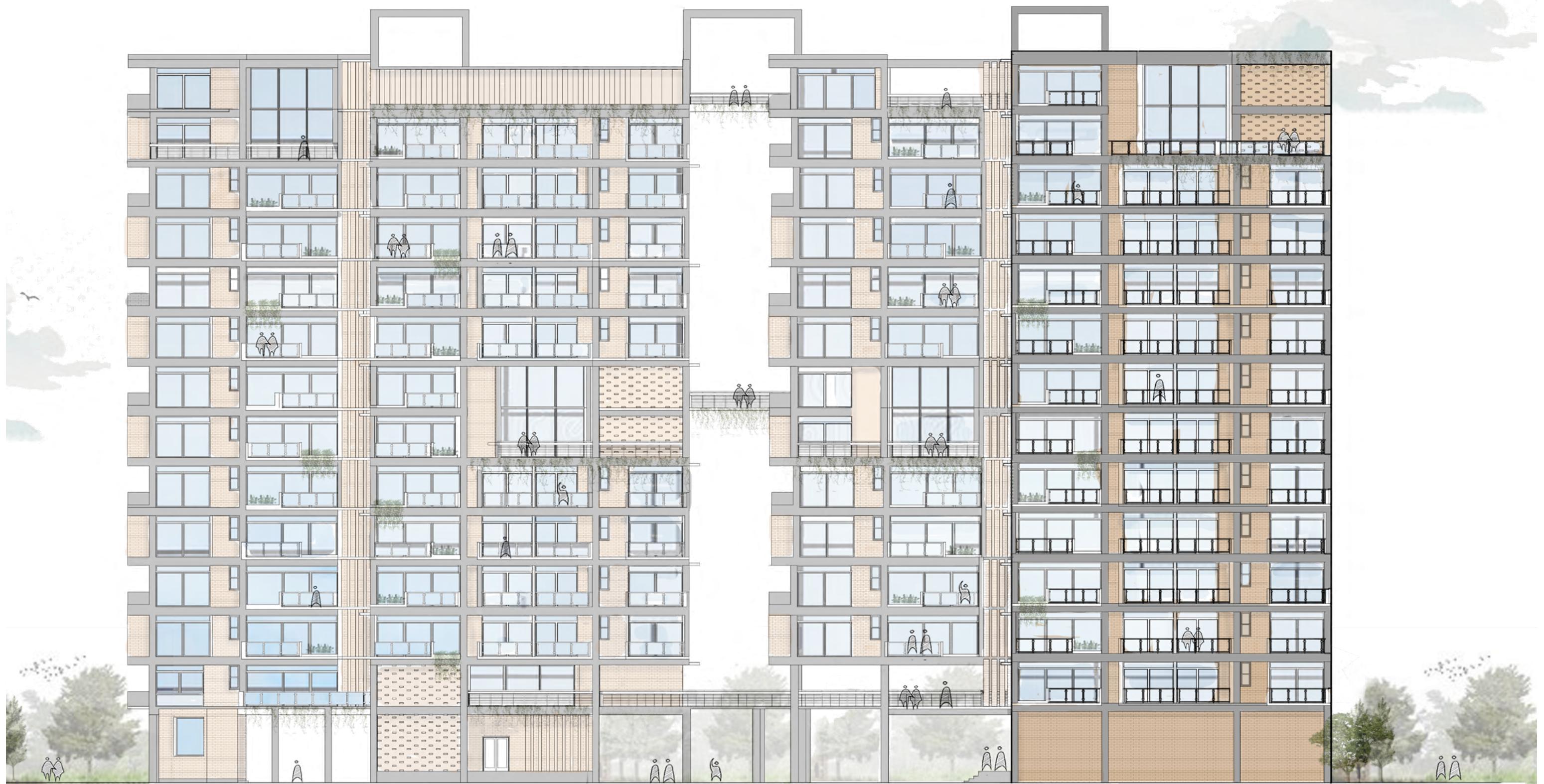
GROUND FLOOR PLAN



AXONOMETRIC SECTION



SECTION BB



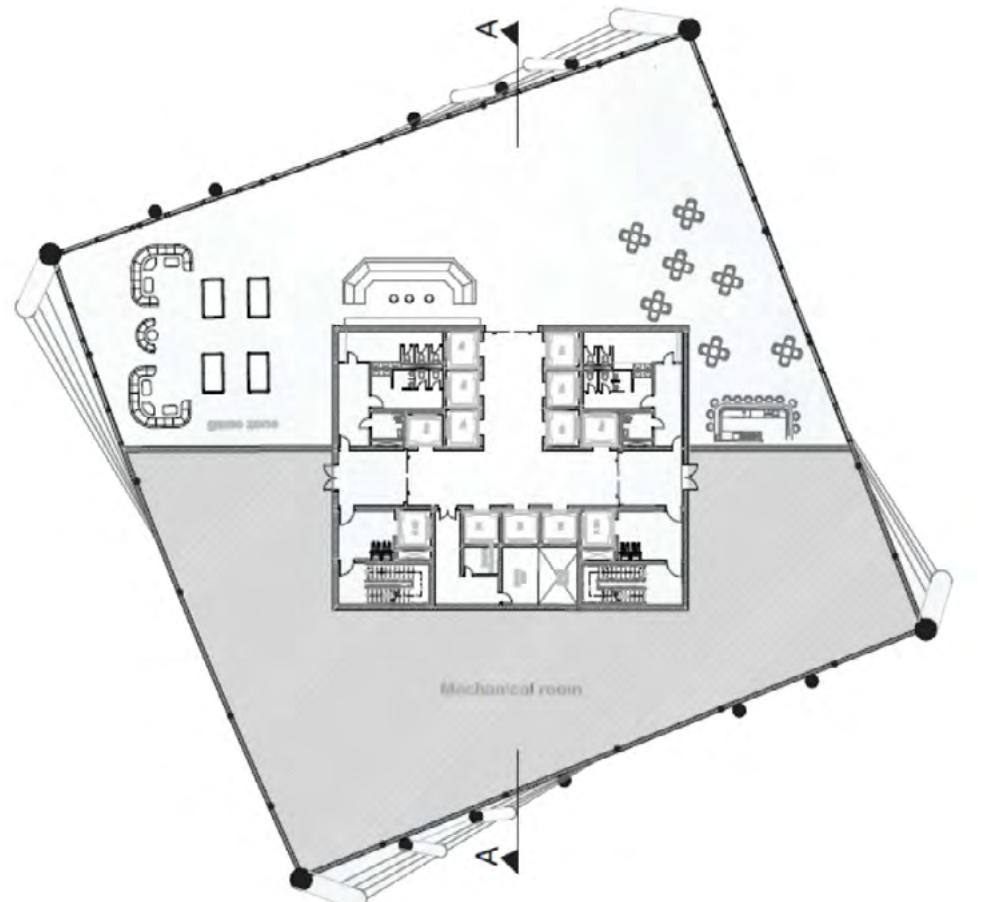
NORTH-WEST ELEVATION



COMMON SPAE AND WATER BODY IN MODEL



COMMON SPAE AND BRIDGE CONNECTION IN MODEL



① TRANSFER FLOOR PLAN (21 & 41 FLOOR)

## S K Y W A L K E R

### C O N C E P T

**Site Location:** Teigaon, Dhaka, Bangladesh

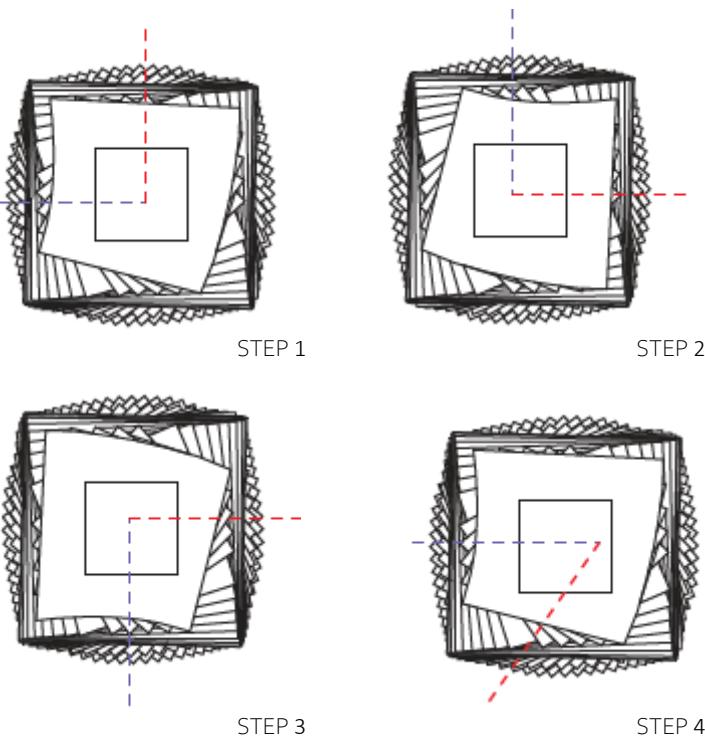
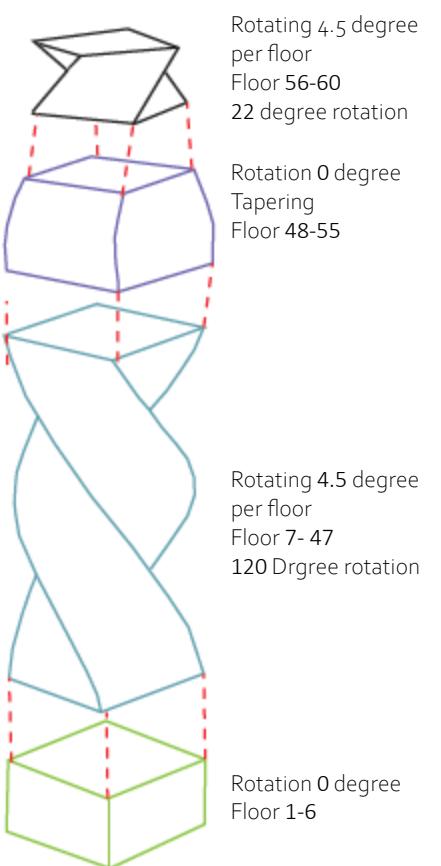
**Site Area:** 87900 sqft

**Project Type:** Skyscraper

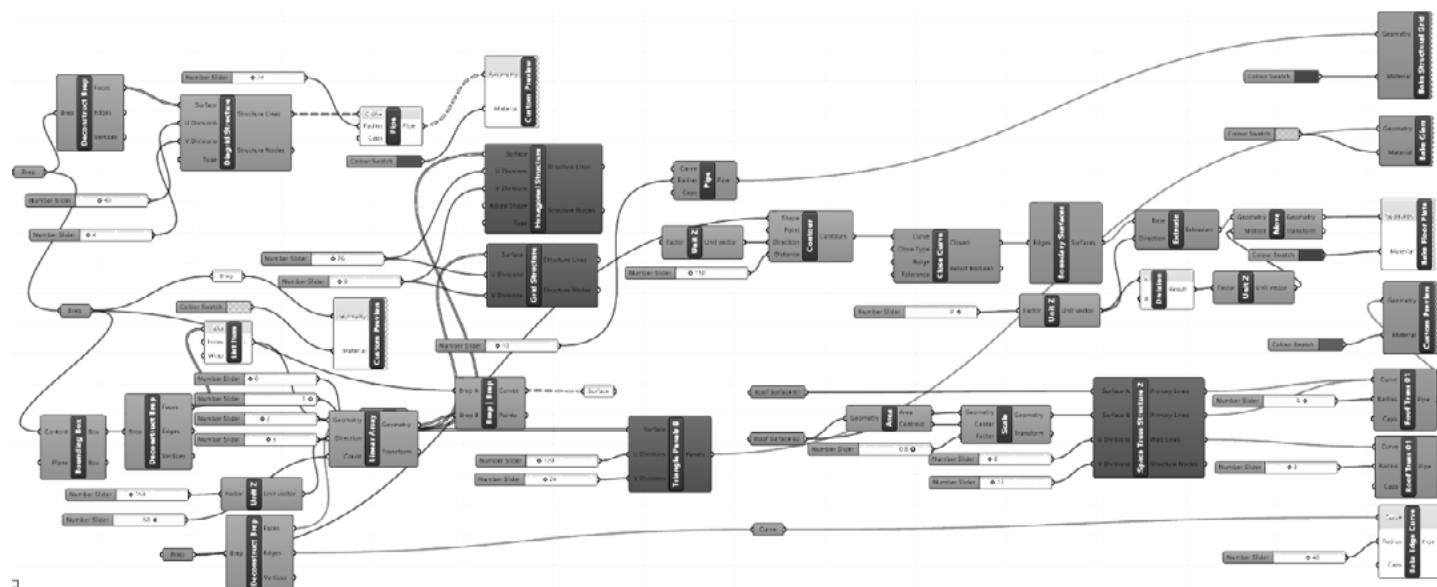
**Faculty:** Mujtaba Ahsan

The main idea was to create a dynamic form with a simple geometry which was eyecatching. The curves were created in a way that can cut off the wind speed, which reduces the over all cost of the building and make it more efficient. Also, the building-gives people green connectivity which makes it more sustainable.

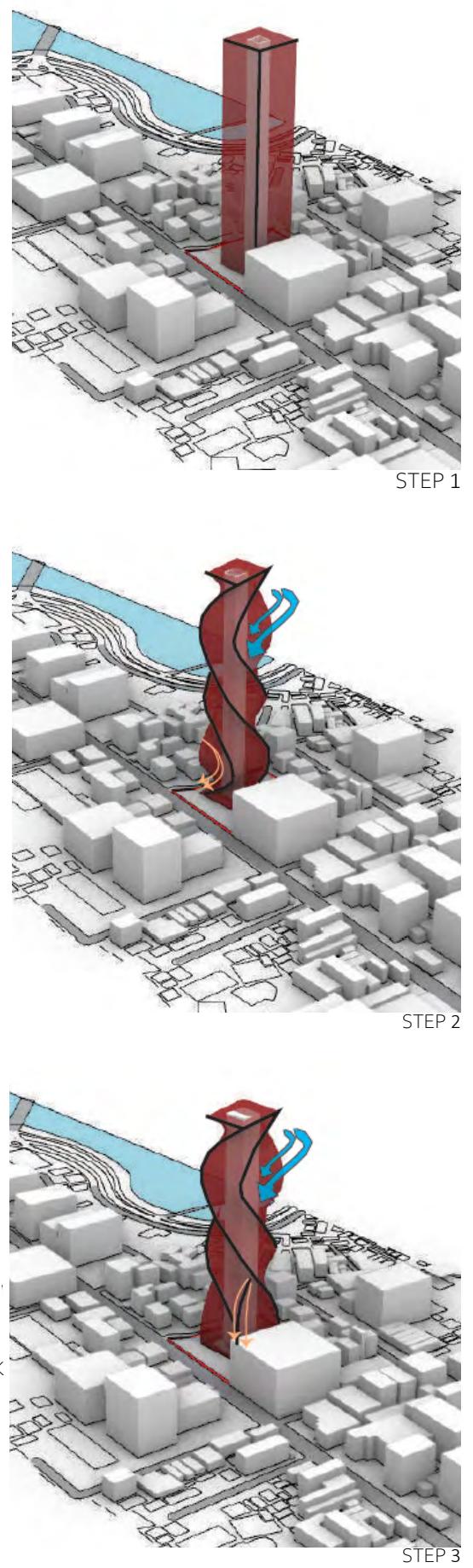
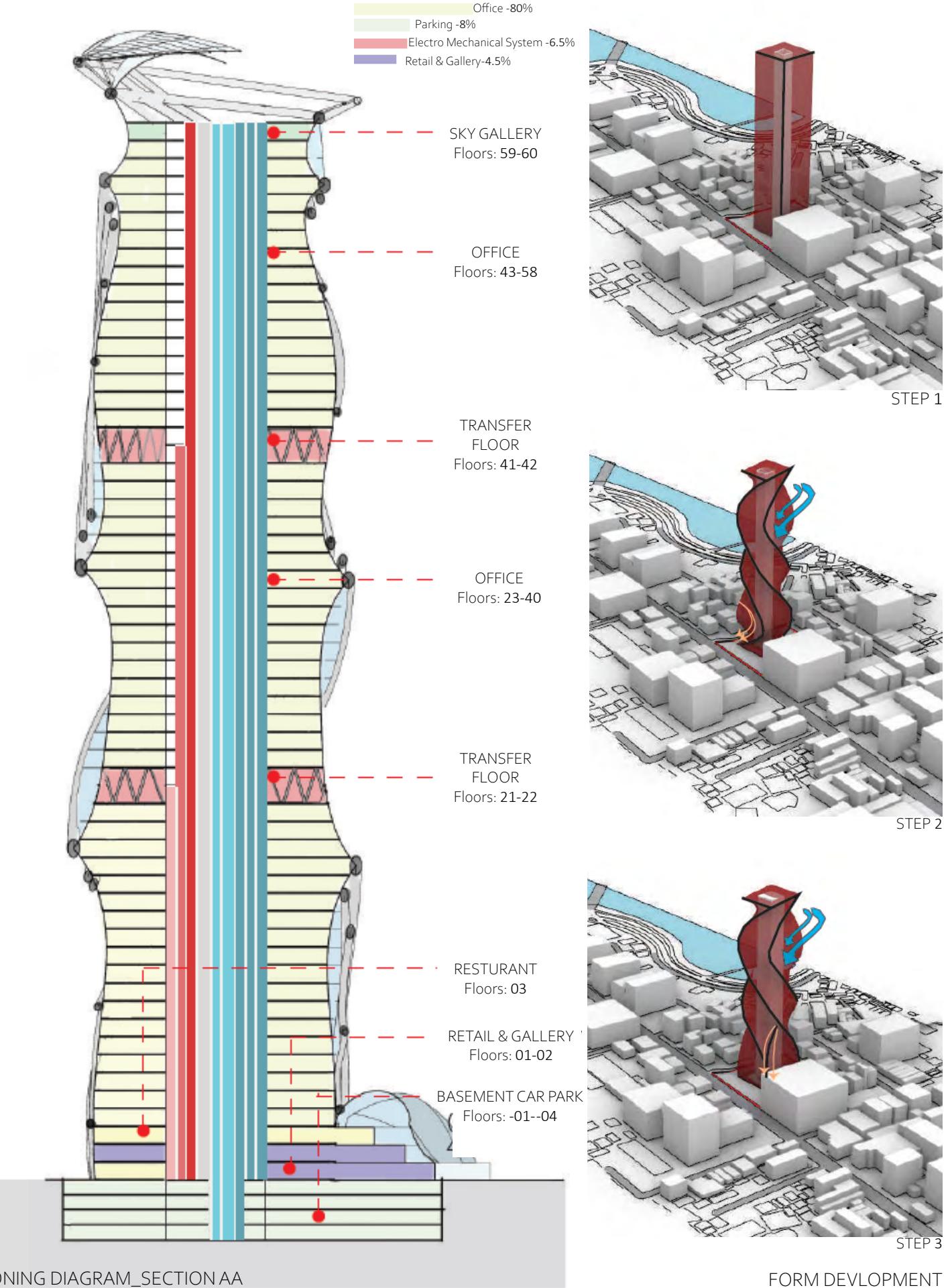




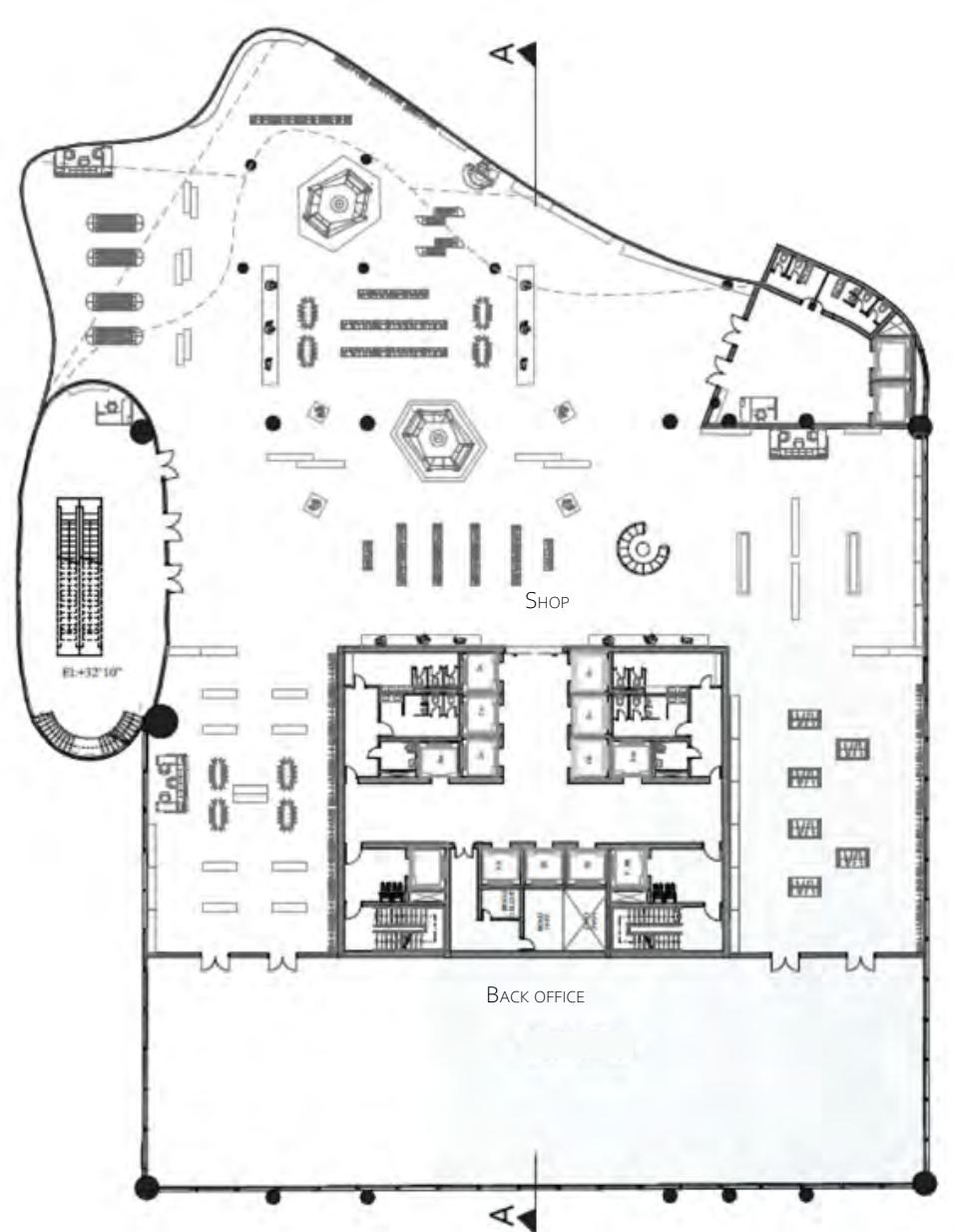
ROTATION DIAGRAM



RHINO\_GRASSHOPPER\_SCRIPT FOR THE FORM & STRUCTURE



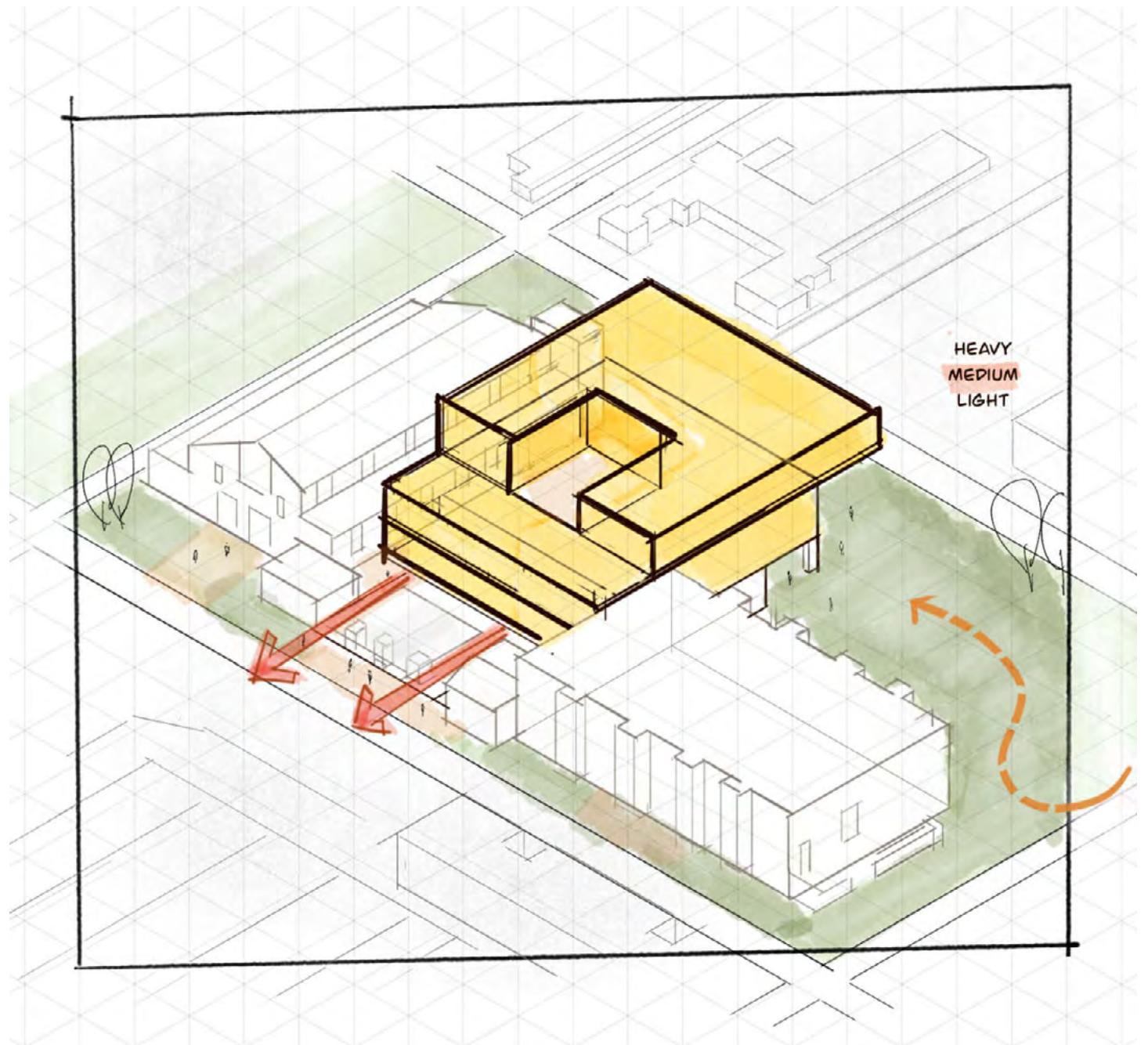
FORM DEVELOPMENT



① TRANSFER FLOOR PLAN (21 & 41 FLOOR)



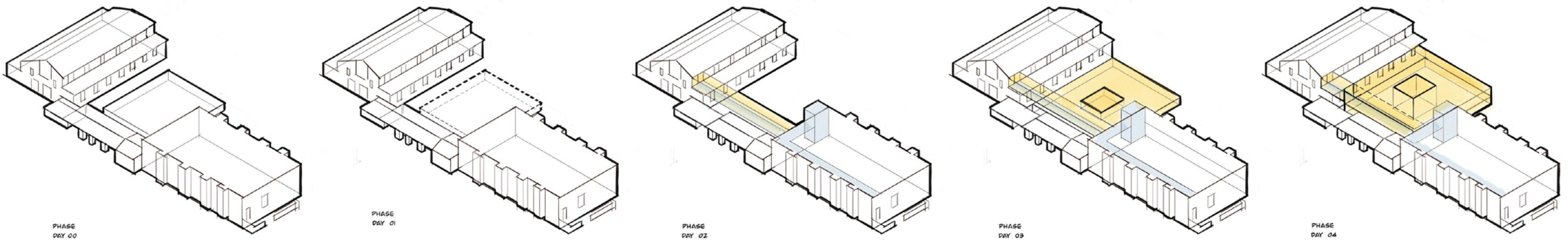
# OFFICE WORK



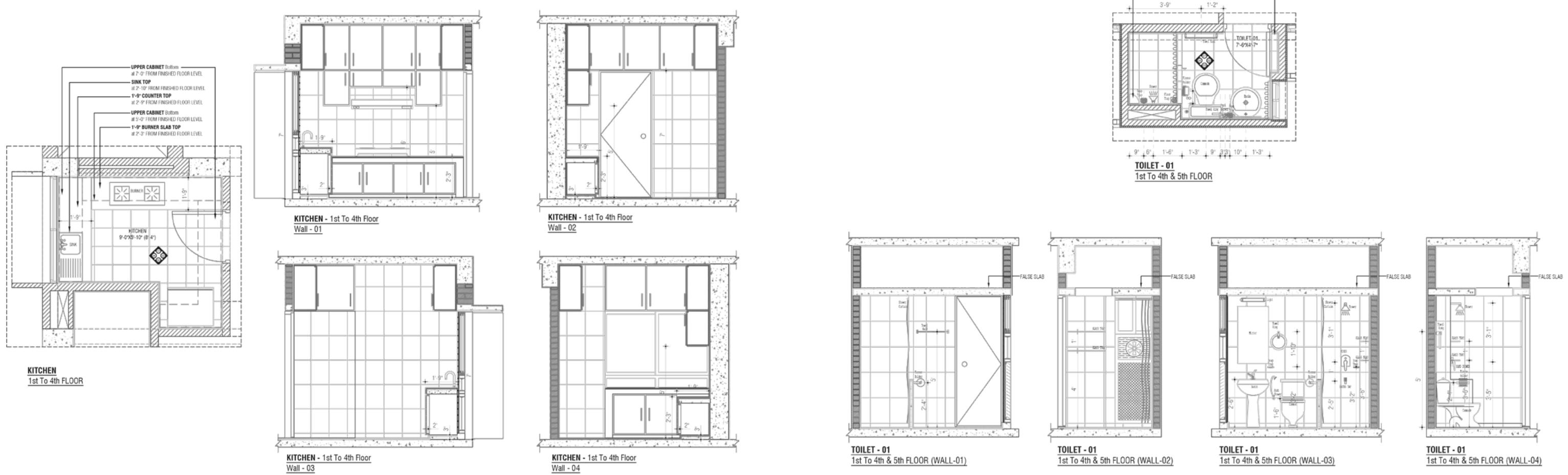
CONCEPTUAL DESIGN FOR CALPOLY



CONCEPTUAL RENDER

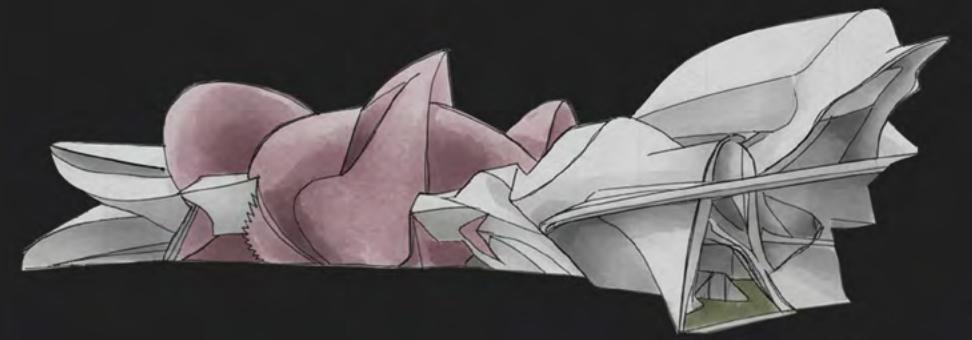


CONCEPTUAL DESIGN FOR CALPOLY



WORKING DRAWING

WORKING DRAWING



THANKYOU